



**US Army Corps
of Engineers**

Construction Engineering
Research Laboratories

USACERL Technical Report 98/19
December 1997

Installation Summaries from the 1996 Survey of Threatened and Endangered Species on Army Lands

by

Eric R. Schreiber, Rachel A. Shaw, Alison Hill, and Mary A. Reed

In November of 1996, the Army conducted a survey of the Threatened and Endangered (T&E) species residing on and contiguous to its lands. This report, intended for installation use, provides quick access to basic information from the survey on the Federally Threatened, Endangered, Proposed, and Candidate (TEPC) species that occur on Army lands. In addition to a summary of Army-wide information, data is also provided at the installation level and the

species level. Installation level data provides information on all species which occur on each installation, while species level data lists all installations on which each species occurs. Corresponding information on Federal status, critical habitat, and endangered species management plans (ESMPs) are provided for each species, in addition to points-of-contact for each installation.

SF 298

Foreword

This study was conducted for the U.S. Army Environmental Center (AEC) and the Office of the Directorate of Environmental Programs (ODEP), Assistant Chief of Staff for Installation Management (ACSIM) under Military Interdepartmental Purchase Request (MIPR) No. 3176; Work Unit ND6, "1996 TES Survey, Phase 1: Survey Development and Administration," and MIPR No. 2357; Work Unit KG7, "1996 TES Survey, Phase 2: Analysis and Reporting." The technical monitor was Scott Belfit, SFIM-AEC-ECM.

The work was performed by the Natural Resource Assessment and Management Division (LL-N) of the Land Management Laboratory (LL), U.S. Army Construction Engineering Research Laboratories (USACERL). Mary A. Reed, U.S. Army Environmental Center, assisted in the technical review. The USACERL principal investigator was Dr. Alison Hill. Robert M. Lacey is Acting Chief, CECER-LL-N; Dr. William D. Severinghaus is Operations Chief, CECER-LL. The USACERL technical editor was Gloria J. Wienke, Technical Resources Center.

COL James A. Walter is Commander and Dr. Michael J. O'Connor is Director of USACERL.

Contents

SF 298	1
Foreword	2
1 Introduction	5
Background	5
Objectives	5
Approach	6
Scope	7
Mode of Technology Transfer	7
Updating of Data	7
2 Definitions	8
3 Summary Information	10
Installation Information	10
Species Information	10
Critical Habitat	13
Endangered Species Management Plans	13
References	15
Appendix A: Onsite and Contiguous TEPC Species, by Installation, with Corresponding Points-of-Contact	17
Appendix B: Critical Habitat and ESMP Status for Onsite and Contiguous TEPC Species, with Corresponding Installations	37
Distribution	

1 Introduction

Background

The Army is required to protect state and Federally listed Threatened and Endangered (T&E) species on its lands (Army Regulation [AR] 420-74 1989). This requirement directly affects land use and management. The presence of T&E species can: (1) limit land uses, including training activities, (2) result in direct conflicts with the military mission, (3) require added financial and personnel resources to take affirmative action on behalf of listed species, and (4) involve state and Federal wildlife agencies in Army land use decision-making (Tazik, Sherman, and Courson 1991).

Compared with other Federal land management agencies, the military has a disproportionately large number of T&E species on its lands (Flather et al. 1994). In some instances, this has resulted in conflict between T&E conservation requirements and the installation commander's ability to train soldiers and test weapons and equipment to assure readiness. The Army must be able to determine the extent of potential T&E species problems in order to develop long-term management strategies while minimizing negative effects on training and testing. Because of the potential for conflict between T&E conservation and training/testing, the Office of the Directorate of Environmental Programs (ODEP) and the Army Environmental Center (AEC) are pursuing innovative ways to manage and monitor the number of T&E species on Army lands. Army leadership is committed to developing and supporting a reliable and comprehensive source of T&E species information to ensure compliance with the Endangered Species Act (ESA), Army policy, and training and testing readiness. Standardized annual T&E species data collection will allow the Army to respond to mandated information requests, and track the progress of T&E species management Army-wide (Shaw and Hill 1996).

Objectives

The objectives of this research were to:

- summarize available T&E species information from the 1996 TES survey,

- provide installations with a list of species having critical habitat and endangered species management plans, and
- provide points-of-contact for obtaining additional information.

Approach

The project consisted of two phases. Phase One was to develop a T&E survey for installations. Phase Two was to administer the survey and conduct analysis and reporting.

Phase One: Development of the Survey Instrument. The 10-month development process required substantial collaboration with the T&E Species Users Group, an advisory group consisting of members of ODEP, Army Major Commands (MACOMs), AEC, and the Office of the Deputy Chief of Staff for Operations and Plans (ODSCOP), and consultation with University of Illinois survey research experts. This phase required soliciting ideas and questions, facilitating discussions about the wording of the questions, coordinating the review of revisions, and pretesting by potential survey recipients.

Phase Two: Administration, Analysis, and Reporting. In November 1996, ODEP directed the MACOM Commanders to distribute the survey instructions and instrument, a glossary, a listing of species from the Federal Register, and a reference listing of species reported previously on installations. The packet was forwarded to installations, with a 45-day suspense. An accompanying memorandum suggested installation recipients assemble a team to fill out the survey. These key individuals might include personnel from the Directorate of Public Works (DPW) or equivalent, the Directorate of Plans and Training Mission (DPTM) or equivalent, and the Judge Advocate General (JAG) or compliance office that handle T&E issues.

A complete survey package went to all Army installations with the potential for T&E species. MACOMs assisted with determining installations having the potential for T&E species. MACOM information included acreage, known species occurrences, previous TES surveys, knowledge of the installation, etc. Installations were asked about Federally Threatened, Endangered, Proposed, and Candidate (TEPC) species known to reside on, or contiguous to, the installation. The survey consisted of approximately 50 questions. Questions asked for: (1) T&E management and compliance concerns, (2) training and testing restrictions/impacts due to T&E species, and (3) points-of-contact.

Scope

This report provides the 1996 overview of the T&E species on Army installations, and includes 248 distinct TEPC species (523 occurrences) for 201 Army installations, with corresponding information on critical habitat and endangered species management plans (ESMPs).

Mode of Technology Transfer

Headquarters, Department of the Army (HQDA) and MACOMS were provided raw data resulting from this survey. This report provides installations with summary TES information for future reference.

Updating of Data

The data is current as of January 10, 1997. Any incorrect species, misidentifications, changes in ESMP status, or new species not known at the time of the survey administration, will not be added, but will become part of the 1997 survey.

This report is the third of a series of three, with the intended audience being the Environmental and Training Managers at installations. The first report, titled *The 1996 Survey of Threatened and Endangered Species on Army Lands: A Summary Report* (Shaw, Schreiber, and Hill 1997), provides (HQDA) and MACOM summaries based on survey responses. The second report, titled *Threatened and Endangered Species on Army Installations: A MACOM Report* (Schreiber, Shaw, and Hill 1997), also provides HQDA and MACOM-level summaries; it includes installation profiles, specifying MACOM, county, point-of-contact, and a listing of all onsite and contiguous species by category, for each of the 201 installations responding to the survey.

2 Definitions

Several acronyms and terms are used consistently throughout this document. These terms are defined below:

Distinct Species — The term distinct species is synonymous with the term unique species. For example, the bald eagle is considered as one distinct or unique species, regardless of the number of installations on which it occurs. Distinct species may be calculated Army-wide, or within individual MACOMs. In either case, a particular species is counted only once.

Federal Status

- E - Federally Endangered
- T - Federally Threatened
- PE - Federally Proposed as Endangered
- PT - Federally Proposed as Threatened
- C - Candidate species for Federal listing

Installation — The term installation refers to active military installations, state National Guard Bureau (NGB) offices, NGB training sites, and regional support centers for the Army Reserve. In some cases, it was difficult to define “installation” data because some NGB state offices, for example, reported on a state-wide basis, while others reported for each training site in the state. Analyses in this report do not make a distinction between these types of locations.

Occurrence — An occurrence is a record of a species. A record refers to each time a species is recorded as being present on an installation and is synonymous with the term record in terms of the database. For example, if a bald eagle occurs on five installations it is recorded as five occurrences.

S/A — Similarity of Appearance. Certain species that closely resemble T&E species may be given the Federal status of the species they resemble. Similarity of appearance species are denoted with a T(S/A) or E(S/A). However, no distinction is made between S/A species and other T&E species.

Species Location

Both – Species known to occur both onsite and contiguous to the installation.

Contiguous– Species known to occupy or otherwise use habitat adjacent to an installation, which may be affected by installation military activities and land management practices.

Onsite – Species that have been documented within the boundaries of the installation.

T&E — The term T&E includes only Federally Threatened and Endangered species.

These two statuses include S/A species.

TEP — The term TEP includes all Federally Threatened, Endangered, Proposed Threatened, and Proposed Endangered species on Army lands but does not include Candidate species.

TEPC — The term TEPC includes all Federally Threatened, Endangered, Proposed Threatened, Proposed Endangered, and Candidate species on Army lands. Subsequent analyses that use the term TEPC refer to the status of all species.

3 Summary Information

Installation Information

A total of 201 installations responded to the 1996 T&E species survey. Of those responding, 105 (52%) installations have onsite TEPC species, 84 (42%) installations have no TEPC species, and 12 (6%) installations have strictly contiguous species. Of the 105 installations with onsite TEPC species, 100 have T&E species.

The 201 installations include: 48 Army Materiel Command (AMC), 20 Forces Command (FORSCOM), 6 Military District of Washington (MDW), 4 Medical Command (MEDCOM), 3 Military Traffic Management Command (MTMC), 80 National Guard Bureau (NGB), 16 Training and Doctrine Command (TRADOC), 14 U.S. Army Reserve Command (USARC), 9 U.S. Army, Pacific (USARPAC), and 1 U.S. Military Academy (USMA).

Appendix A lists the 117¹ installations with onsite or contiguous TEPC species, with corresponding information on scientific name, common name, Federal status, category, occurrence, critical habitat, and ESMP status for each species.

Species Information

A total of 248 distinct onsite and contiguous TEPC species (523 occurrences) were identified on 117 (58%) of the installations surveyed. These 248 TEPC species include: 147 onsite² and contiguous species (265 occurrences), 54 onsite species (128 occurrences), and 47 contiguous species (130 occurrences) (see Table 1). Of the 201 distinct onsite TEPC species, 153 are T&E.

¹ This number includes 105 installations with onsite TEPC species and 12 installations with strictly contiguous TEPC species.

² It should be noted that some species listed as onsite may also occur contiguous to the installation.

Table 1. Installation and species summary information.

	Number of installations	Number of distinct species	Number of species occurrences
Totals	201	248	523
Onsite TEPC species	105	201	393
No TEPC species	84	0	0
Strictly contiguous species	12	47	130
Onsite T&E species*	100	153	430

* Onsite T&E species are independent of the overall TEPC species numbers and cannot be added.

Of the 248 distinct species, 64% are Endangered, 14% are Threatened, 13% are Proposed Endangered, 8% are Candidates, and 1% are Proposed Threatened (Figure 1). When listed by Category, 54% of the 248 distinct species are plants, 15% are birds, 7% are snails, 5% are reptiles, fish, and mammals, 3% are clams and insects, 2% are amphibians, and 1% are crustaceans (Figure 2).

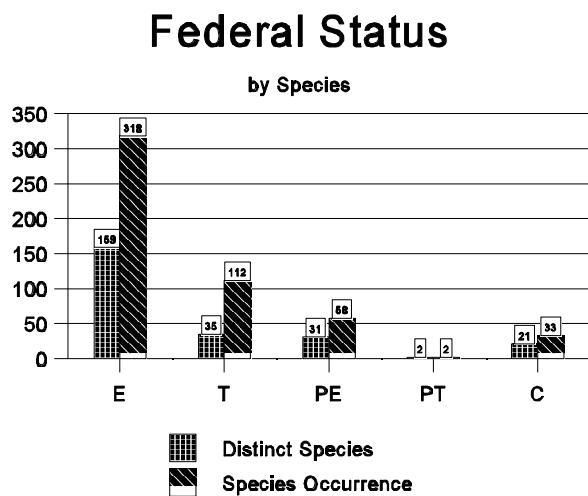


Figure 1. Federal status, by distinct species and species occurrence, for all species combined.

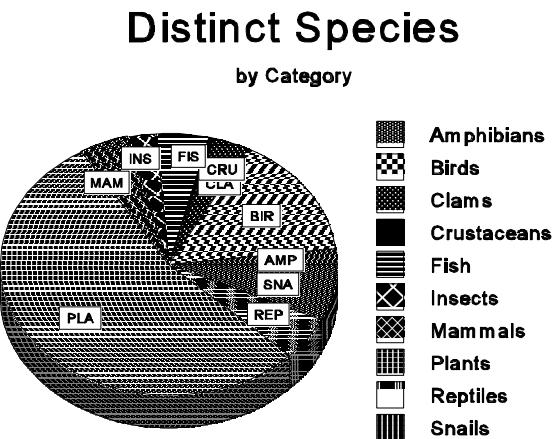


Figure 2. Distinct species, by category, for all species combined.

Of the 90 contiguous TEPC species, 67% are Endangered, 16% are Threatened, 9% are Candidates, 8% are Proposed Endangered, and 1% are Proposed Threatened (Figure 3). When divided by category, 37% of the contiguous species are plants, 24% are birds, 10% are fish, 8% are clams, 6% are mammals and reptiles, 4% are snails, 3% are insects, and 2% are amphibians (Figure 4).

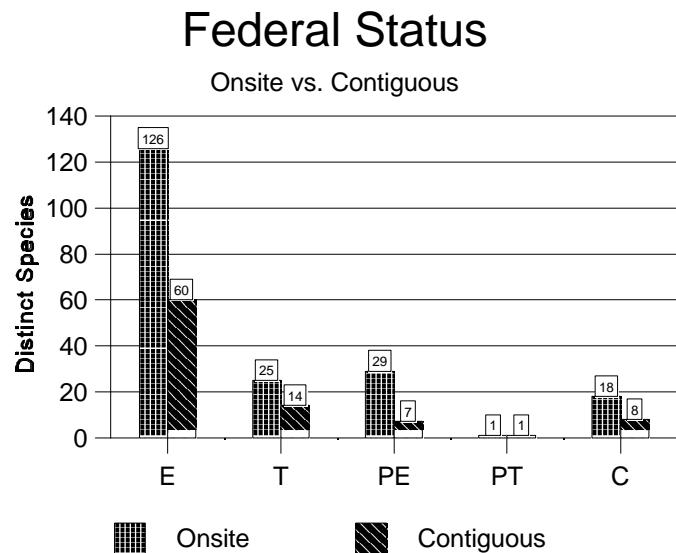


Figure 3. Distinct species, by Federal status, for onsite and contiguous species.

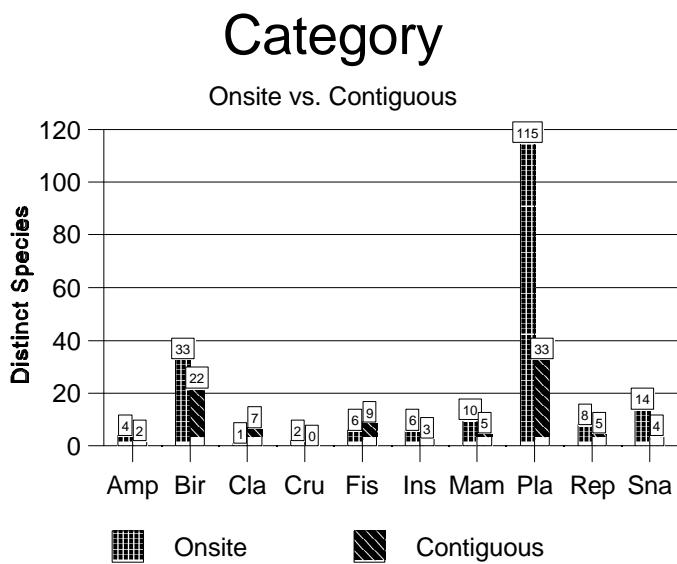


Figure 4. Distinct species, by category, for onsite and contiguous species.

Appendix B lists the 248 distinct onsite and contiguous TEPC species, with information on occurrence, critical habitat, and ESMP status for each of the corresponding installations.

Critical Habitat

Installations reported 21 distinct T&E species (32 occurrences) as having critical habitat. However, when checked against the Federal Register, only 5 species (6 occurrences) were confirmed as having critical habitat.³ Confirmed species with critical habitat include the Mexican spotted owl (Camp Navajo and Fort Huachuca), northern spotted owl (Fort Lewis), palila (Pohakuloa), desert tortoise (Fort Irwin), and the Oregon silverspot butterfly (Camp Rilea).

Endangered Species Management Plans

Of the 393 onsite Federal TEPC species occurrences, only 371 were considered “eligible” to have an endangered species management plan (ESMP). The term “eligible” refers to Federally Threatened, Endangered, and Proposed species (TEP), and assumes that Candidate species should not have an ESMP.

³ Unconfirmed records were changed in the database to reflect the status reported in the Federal Register.

Of the 371 “eligible” onsite TEP species occurrences, 219 (59%) have an ESMP that is currently under preparation or in process, 103 (28%) have not yet had an ESMP initiated, 36 (10%) have a completed ESMP, and 13 (4%) had no response.

The Army also had 46 contiguous TEP species occurrences that were considered “eligible” to have an ESMP. Of these occurrences, 40 (87%) have an ESMP that is currently under preparation or in process, and 6 (13%) have a completed ESMP.

References

Cited

- 16 U.S. Code (U.S.C.) 1536(a)(1); Army Regulation (AR) 420-74, Paragraph 6-2 *Natural Resource – Land, Forest, and Wildlife Management* (Headquarters, Department of the Army [HQDA], 25 February 1986); Federal Register (FR) 54:7539-7543, 265.7(B)(3)(b) [22 Feb 1989].
- Flather, C. H., L.H. Joyce, and C.A. Bloomgarden. *Species endangerment patterns in the United States*. Gen. Tech. Rep. RM-241. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, 1994. 42pp.
- Schreiber, E.R., R.A. Shaw, A. Hill, and M.A. Reed, *Threatened and Endangered Species on Army Installations: A MACOM Report*, Technical Report [TR] 98/18 (U.S. Army Construction Engineering Research Laboratory [USACERL], December 1997).
- Shaw, R.A., and A. Hill, *Army-wide Threatened and Endangered Species Survey*, USACERL Technical Note 96-101 (U.S. Army Construction Engineering Research Laboratory, September 1996).
- Shaw, R.A., E.R. Schreiber, and A. Hill, *The 1996 Survey of Threatened and Endangered Species on Army Lands: A Summary Report*, Technical Report [TR] 98/17 (USACERL, December 1997).
- Tazik, D.J., R.A. Sherman, and J.A. Courson, *Annotated Directory of Threatened and Endangered Wildlife on Selected U.S. Army Installations East of the Mississippi River*, Technical Report [TR] N-91/26 (USACERL, May 1991).

Appendix A: Onsite and Contiguous TEPC Species, by Installation, with Corresponding Points-of-Contact

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
63rd RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
65th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
77th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
88th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
90th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
94th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
96th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
124th RSC	USARC		C/O Tom Sinclair	404-629-8217	No Species				
Ahoaka & Wailua River LTA	NGB	HI	Melissa Dumaran	808-733-4265	<i>Anas wyvilliana</i> <i>Gallinula chloropus sandvicensis</i> <i>Lasiurus cinereus semotus</i> <i>Puffinus auricularis newelli</i>	Hawaiian Duck Hawaiian Gallinule Hawaiian Hoary Bat Newell's Townsend's Shearwater	E	Bird	Onsite
Aberdeen Proving Ground	AMC	MD	James Pottie	410-671-4841	<i>Acipenser brevirostrum</i> <i>Cicindela puritana</i> <i>Etheostoma sellare</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i>	Shortnose Sturgeon Puritan Tiger Beetle Maryland Darter Peregrine Falcon Bald Eagle	E	Bird	Onsite
Addicks Reservoir	NGB	TX	James Resner	512-465-5226	<i>Hymenoxys texana</i>	Texas Prairie Dawn-flower	T	Bird	Both
Adelphi Army Research Labs	AMC	MD	Robert Wardwell	301-394-1060	<i>Haliaeetus leucocephalus</i>	Bald Eagle	E	Plant	Both
AI-ARNG	NGB	AL	MAJ Wayne Sartwell	334-271-7427	No Species		T	Bird	Onsite
Alabama AAP	AMC	MI	C/O Rich Clewell	309-782-8252	No Species				
Anahola LTA	NGB	HI	Melissa Dumaran	808-733-4265	<i>Anas wyvilliana</i>	Hawaiian Duck	E	Bird	Both
Anniston Army Depot	AMC	AL	Billy Burns	205-235-4217	<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both
Artemus TS	NGB	KY	SGM Harold Disney	606-546-7838	No Species				
Attibury Reserve Forces TA	NGB	IN	Art Howard	812-526-1249	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Auburn TS	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Badger AAP	AMC	WI	Douglas Rhead	608-356-5535	<i>Lespedeza leptostachya</i>	Prairie Bush Clover	T	Plant	Contiguous
Bangor International Airport	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Bayonne Military Ocean Terminal TS	MTMC	MO	Leonard Wagner	201-823-7010	No Species				

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Bluegrass Army Depot	AMC	KY	Killye Haslett	606-625-6669	<i>Tritolium stoloniferum</i>	Running Buffalo Clover	E	Plant	Both
Camel Tracks	NGB	NM	Robert Concha	505-474-1809	No Species				
Camp Adair	NGB	OR	Greg Mitchell	503-945-3851	No Species				
Camp Ashland	NGB	NE	CPT Vic Siedler	402-944-2150	No Species				
Camp Barkley	NGB	TX	James Resner	512-465-5226	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both
Camp Beauregard	NGB	LA	CW2 Carl Thompson	318-641-8309	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Contiguous
Camp Blanding TS	NGB	FL	Philip Hall	904-533-3456	<i>Alligator mississippiensis</i> <i>Aphelocoma coerulescens</i> <i>Drymarchon corais couperi</i> <i>Felis concolor coryi</i> <i>Haliaeetus leucocephalus</i> <i>Mycerita americana</i> <i>Picoides borealis</i> <i>Rhododendron chapmanii</i> <i>Ursus americanus floridanus</i>	American Alligator Florida Scrub Jay Eastern Indigo Snake Florida Panther Bald Eagle Wood Stork Red-cockaded Woodpecker Chapman's Rhododendron Florida Black Bear	T(S/A)	Reptile	Both
Camp Clark	NGB	MO	Eugene Young	573-526-9418	<i>Asclepias meadii</i>	Mead's Milkweed	T	Plant	Contiguous
Camp Crowder	NGB	MO	Eugene Young	573-526-9418	<i>Amblyopsis rosae</i> <i>Etheostoma cragini</i> <i>Haliaeetus leucocephalus</i> <i>Myotis griseescens</i> <i>Nicrophorus americanus</i>	Ozark Cavefish Arkansas Darter Bald Eagle Gray Bat American Burying Beetle	T	Fish	Contiguous
Camp Dodge	NGB	IA	Mary Jones	515-252-4648	No Species		C	Fish	Contiguous
Camp Grafton	NGB	ND	MAJ Gary Yantzer	701-224-5246	<i>Charadrius melanotos</i>	Piping Plover	T	Bird	Both
Camp Grafton South	NGB	ND	MAJ Gary Yantzer	701-224-5246	No Species				
Camp Grayling	NGB	MI	Larry Jacobs	517-348-7621	<i>Dendroica kirtlandii</i> <i>Haliaeetus leucocephalus</i> <i>Solidago houghtonii</i>	Kirtland's Warbler Bald Eagle Houghton's Goldenrod	E	Bird	Both
Camp Gruber	NGB	OK	Nancy Davis	918-487-6223	<i>Nicrophorus americanus</i>	American Burying Beetle	T	Bird	Both
Camp Guernsey	NGB	WY	David Palmer	307-772-5285	<i>Haliaeetus leucocephalus</i>	Bald Eagle	E	Insect	Both
Camp Joseph T. Robinson	NGB	AR	Kerry Koehler	501-212-5886	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Contiguous
Camp Maluhia LTA	NGB	HI	Melissa Dumaran	808-733-4265	No Species				
Camp McCain	NGB	MS	MAJ Robert Piazza	601-973-6109	No Species				
Camp Murray	NGB	WA	Ted Arnold	206-512-8904	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat stat	Occur
Camp Navajo Military Reservation	NGB	AZ	Christopher Pedersen	602-267-2464	<i>Clematis hirsutissima</i> var. <i>arizonica</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i> <i>Strix occidentalis lucida</i>	Arizona Leather Flower Peregrine Falcon Bald Eagle Mexican Spotted Owl	C E(S/A) T T	Plant Bird Bird Bird	Both Both Both Both
Camp Rilea	NGB	OR	Greg Mitchell	503-945-3851	<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite
Camp Ripley	NGB	MN	Martin Skoglund	320-632-7201	<i>Canis lupus</i> <i>Haliaeetus leucocephalus</i>	Gray Wolf Bald Eagle	T	Mammal Bird	Both Onsite
Camp Roberts	NGB	CA	Julie Eliason	805-238-8265	<i>Branchinecta lynchi</i> <i>Haliaeetus leucocephalus</i> <i>Vulpes macrotis mutica</i>	Vernal Pool Fairy Shrimp Bald Eagle San Joaquin Kit Fox	T	Crustacean Bird	Both Both Both
Camp San Luis Obispo	NGB	CA	Julie Eliason	805-238-8265	<i>Cirsium fontinale</i> var. <i>obispoense</i> <i>Rana aurora draytoni</i> <i>Vireo bellii pusillus</i>	Chorro Creek Bog Thistle California Red-legged Frog Least Bell's Vireo	E	Mammal	Both
Camp Shelby	NGB	MS	MAJ Robert Piazza	601-973-6109	<i>Gopherus polyphemus</i> <i>Isoetes louisianensis</i> <i>Picoides borealis</i>	Gopher Tortoise Louisiana Quillwort Red-cockaded Woodpecker	PE E E	Plant Amphibian Bird	Both Both Onsite
Camp Smith	NGB	NY	MAJ Mark Warnecke	518-786-4318	<i>Acipenser brevirostrum</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i>	Shortnose Sturgeon Peregrine Falcon Bald Eagle	E E(S/A) T	Fish Bird Reptile	Contiguous Contiguous Contiguous
Carlisle Barracks TRADOC	PE				No Species				
Caswell TS	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Catoosa TS	NGB	GA	Jerry Mosley	706-935-4897	No Species				
Cedar City Armory	NGB	UT	Douglas Johnson	801-576-3960	<i>Cynomys parvidens</i>	Utah Prairie Dog	T	Mammal	Contiguous
Central Oregon TS	NGB	OR	Greg Mitchell	503-945-3851	No Species				
Charles Melvin Price Support Center	AMC	IL	C/O Rich Clewell	309-782-8252	No Species				
Clark County TS	NGB	NV	Loren Brazell	702-887-7276	<i>Empidonax traillii extimus</i> <i>Gopherus agassizii</i>	Southwestern Willow Flycatcher Desert Tortoise	E T	Bird Reptile	Both Both
Command Readiness Center	NGN	PR	CW2 Harry Francis	401-457-4234	No Species				
Cornhusker AAP	AMC	NE	Scott Smith	913-583-3000	No Species				
Delaware ARNG	NGB	DE	CPT Scott Ralph	302-326-7132	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Contiguous
Detroit Arsenal	AMC	MI	C/O Rich Clewell	309-782-8252	No Species				
Devens RTFA	USARC	MA	Tom Poole	508-796-2747	<i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i>	Peregrine Falcon Bald Eagle	E(S/A) T	Bird Bird	Both Both

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Dillingham TA	USARPAC	HI	Steve Kim	808-656-2878	<i>Anas wyvilliana</i> <i>Cyperus trachysanthos</i> <i>Fulica americana alai</i> <i>Gallinula chloropus sandvicensis</i> <i>Hibiscus brackenridgei ssp. mokuleianus</i> <i>Himantopus mexicanus knudseni</i> <i>Monachus schauinslandi</i> <i>Nototrichium humile</i> <i>Schiadea kealiae</i>	Hawaiian Duck Pu uka a Hawaiian Coot Hawaiian Gallinule Mao Hau Hele Hawaiian Stilt Hawaiian Monk Seal Kulu'i Ma oli'oli	E PE E E E E E E E	Bird Plant Bird Bird Plant Bird Mammal Plant Plant	Both Onsite Both Both Contiguous Both Both Onsite Onsite
Dugway Proving Ground	AMC	UT	Scott Bates	801-831-3735	<i>Charadrius montanus</i> <i>Falco peregrinus anatum</i> <i>Haliaeetus leucocephalus</i> <i>Rana pretiosa</i> <i>Spiranthes diluvialis</i>	Mountain Plover American Peregrine Falcon Bald Eagle Spotted Frog Ute Ladies'-tresses	C E T C T	Bird Bird Bird Amphibian Plant	Contiguous Contiguous Both Contiguous Contiguous
Eastern Kentucky TS	NGB	KY	SGM Harold Disney	606-546-7838	No Species				
Ethan Allen Air Force Base TS	NGB	VT	MAJ Bouchard	802-654-0300	No Species				
Ethan allen Firing Range	NGB	VT	MAJ Bouchard	802-654-0300	No Species				
Fitzsimmons AMC	MEDCOM	CO	Gilbert Gonzalez	210-221-6441	No Species				
Ft. A.P. Hill	MDW	VA	Heather Mansfield	804-633-8417	<i>Haliaeetus leucocephalus</i> <i>Helonias bullata</i> <i>Isotria medeoloides</i>	Bald Eagle Swamp Pink Small Whorled Pogonia	T T T	Bird Plant Plant	Both Onsite Onsite
Ft. Belvoir	MDW	VA	Dorothy Keough	703-806-4007	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Ft. Benning	TRADOC	GA	Randy Druckman	706-544-7319	<i>Alligator mississippiensis</i> <i>Haliaeetus leucocephalus</i> <i>Mycteria americana</i> <i>Picoides borealis</i> <i>Trillium relictum</i>	American Alligator Bald Eagle Wood Stork Red-cockaded Woodpecker Relict Trillium	T(S/A) T E E E	Reptile Bird Bird Bird Plant	Both Both Both Both Onsite
Ft. Bliss	TRADOC	TX	Rafael Corral	915-568-6977	<i>Coryphantha sneadii var. sneadii</i> <i>Echinocereus fendleri</i> var. <i>kuenzleri</i> <i>Empidonax traillii extimus</i> <i>Falco femoralis septentrionalis</i> <i>Falco peregrinus anatum</i> <i>Haliaeetus leucocephalus</i> <i>Hedonema toddsenii</i> <i>Strix occidentalis lucida</i>	Sneed Pincushion Cactus Kuenzler Hedgehog Cactus Southwestern Willow Flycatcher Northern Apiomado Falcon American Peregrine Falcon Bald Eagle Todsen's Pennyroyal Mexican Spotted Owl	E E E E E T	Plant Plant Bird Bird Bird Plant Bird	Both Contiguous Both Both Both Contiguous Both

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur	
Ft. Bragg	FORSCOM NC	Scott Bebb	910-432-5325	Lysimachia asperulaefolia Neonympha mitchellii francisci	Rough-leaved Loosestrife Saint Francis' Satyr Butterfly	Plant Insect	Both Onsite			
				Picoides borealis	Red-cockaded Woodpecker	Bird	Both			
				Rhus michauxii	Michaux's Sumac	Plant	Both			
				Schwalbea americana	American Chaffseed	Plant	Both			
Ft. Buchanan	FORSCOM PR	Tony Perez	787-273-3508	Banara vanderbitii Buxus vahlii Daphnopsis hellerana Epicrates inornatus Ottoschulzia rhodoxylon	Palo de Ramon Vahl Boxwood No Common Name Puerto Rican Boa Palo de Rosa	Plant Plant Reptile Plant	Plant Plant Onsite Onsite Onsite	Onsite Onsite Onsite Onsite		
Ft. Campbell	FORSCOM KY	Jeff Jones	502-798-9825	Apios priceana Dromus dromas Epioblasma walkeri Falco peregrinus Haliaeetus leucocephalus Lampsilis abrupta Myotis grisescens Myotis sodalis Nerodia erythrogaster neglecta Obovaria retusa Plethobasius cooperianus Pleurobema plenum Quadrula fragosa	Price's Potato Bean Dromedary Pearly Mussel Tan Riffleshell Peregrine Falcon Bald Eagle Pink Mucket Pearlymussel Gray Bat Indiana Bat Northern Copperbelly Water Snake Ring Pink Orange Footed Pearly Mussel Rough Pigtoe Winged Mapleleaf Mussel	T E E(S/A) T E E E PT E E E	Plant Clam Clam Bird Clam Mammal Mammal Reptile Clam Clam Clam Clam	Contiguous Contiguous Contiguous Both Both Contiguous Contiguous Contiguous Contiguous Contiguous Contiguous Contiguous Contiguous		
Ft. Carson	FORSCOM CO	Dave Anderson	715-526-4683	Charadrius montanus Ethmostoma cragini Falco peregrinus anatum Haliaeetus leucocephalus Oncorhynchus clarki stomias Spiranthes diluvialis Strix occidentalis lucida	Mountain Plover Arkansas Darter American Peregrine Falcon Bald Eagle Greenback Cutthroat Trout Ute Ladies'-tresses Mexican Spotted Owl	C C E T T T	Bird Fish Bird Bird Fish Plant Bird	Both Both Both Both Onsite Onsite Both		
Ft. Chaffee	TRADOC AR	Jerry Sturdy	501-484-2883	Nicrophorus americanus	American Burying Beetle	E	Insect	Both		
Ft. Detrick	MEDCOM MD	Gilbert Gonzalez	210-221-6441	No Species						
Ft. Dix	FORSCOM NJ	Bert Bivings	404-669-7659	No Species						
Ft. Drum	FORSCOM NY	Bert Bivings	404-669-7659	No Species						
Ft. Eustis	TRADOC VA	Terry Sanders	757-878-2375	Falco peregrinus Haliaeetus leucocephalus	Peregrine Falcon Bald Eagle	E(S/A) T	Bird Bird	Contiguous Both		
Ft. George G. Meade	MDW	Bill Harmeyer	301-677-9648	No Species						
Ft. Gillem	FORSCOM GA	Bert Bivings	404-669-7659	No Species						

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Ft. Gordon	TRADOC	GA	Ken Boyd	706-791-2403	<i>Haliaeetus leucocephalus</i> <i>Mycteria americana</i> <i>Picoides borealis</i>	Bald Eagle Wood Stork Red-cockaded Woodpecker	T E E	Bird Bird Bird	Onsite Onsite Onsite
Ft. Greely	USARPAC	AK	William Gossweiler	907-384-3017	<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Onsite
Ft. Hamilton	FORSCOM	NY	Bert Bivings	404-669-7659	No Species				
Ft. Hood	FORSCOM	TX	Dennis Herbert	817-287-2885	<i>Dendroica chrysoparia</i> <i>Falco peregrinus</i> <i>Grus americana</i> <i>Haliaeetus leucocephalus</i> <i>Vireo atricapillus</i>	Golden-cheeked Warbler Peregrine Falcon Whooping Crane Bald Eagle Black-capped Vireo	E E(S/A) E T E	Bird Bird Bird Bird Bird	Both Both Both Both Both
Ft. Huachuca	TRADOC	AZ	Sheridan Stone	520-533-7084	<i>Ambystoma californiense</i> <i>Empidonax traillii extimus</i> <i>Erigeron lemmonii</i> <i>Falco peregrinus</i> <i>Leptonycteris curasoae</i> <i>yerbabuena</i> <i>Lilaopsis schaffneriana</i> ssp. <i>recurvata</i> <i>Pyrgulopsis thompsoni</i> <i>Rana subglandulosa</i> <i>Rumex orthoneurus</i> <i>Strix occidentalis lucida</i>	<i>Ambystoma californiense</i> Southwestern Willow Flycatcher Lemmon Fleabane Peregrine Falcon Lesser Long-nosed Bat Huachuca Water-umbel Huachuca Springsnail Ramsey Canyon Leopard Frog Blumer's Dock Mexican Spotted Owl	C E C E(S/A) E	Amphibian Bird Plant Bird Mammal	Both Contiguous Onsite Both Both
Ft. Hunter Liggett	USARC	CA	Liz Clark	408-386-2791	<i>Ambystoma californiense</i> <i>Branchinecta lynchii</i> <i>Bufo microscaphus californicus</i> <i>Chlorogallium purpureum</i> var. <i>purpureum</i> <i>Falco peregrinus anatum</i> <i>Gymnogyps californianus</i> <i>Haliaeetus leucocephalus</i> <i>Rana aurora draytoni</i> <i>Vireo bellii pusillus</i> <i>Vulpes macrotis macrotis</i>	<i>Ambystoma californiense</i> Vernal Pool Fairy Shrimp Arroyo Southwestern Toad Purple Anole American Peregrine Falcon California Condor Bald Eagle California Red-legged Frog Least Bell's Vireo San Joaquin Kit Fox	C T C C E E T PE E	Amphibian Crustacean Amphibian Plant Bird	Both Onsite Onsite Onsite Both Contiguous Both Contiguous Both
Ft. Irwin	FORSCOM	CA	Mickey Guillman	619-380-3740	<i>Astragalus jaegerianus</i> <i>Gopherus agassizii</i>	Lane Mountain Milk Vetch Desert Tortoise	C T	Plant Reptile	Both Both
Ft. Jackson	TRADOC	SC	Bruce Cole	803-751-7927	<i>Alligator mississippiensis</i> <i>Echinacea laevigata</i> <i>Haliaeetus leucocephalus</i> <i>Lysimachia asperulaefolia</i> <i>Picoides borealis</i>	American Alligator Smooth Coneflower Bald Eagle Rough-leaved Loosestrife Red-cockaded Woodpecker	T(S/A) E T E	Reptile Plant Bird Plant Bird	Onsite Onsite Onsite Onsite Onsite

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Ft. Knox	TRADOC	KY	Donald Sheroan	502-624-7373	<i>Haliaeetus leucocephalus</i> <i>Myotis grisescens</i> <i>Myotis sodalis</i>	Bald Eagle Gray Bat Indiana Bat	T E E	Bird Mammal Mammal	Both Onsite Both
Ft. Lee	TRADOC	VA	Elizabeth Scholl	804-734-3560	<i>Haliaeetus leucocephalus</i> <i>Howella aequilis</i>	Bald Eagle	T	Bird	Both
Ft. Lewis	FORSCOM	WA	Gary Stedman	206-967-5337	<i>Rana pretiosa</i> <i>Salvelinus confluentus</i> <i>Strix occidentalis caurina</i>	Bald Eagle Spotted Frog Bull Trout Northern Spotted Owl	T T T	Bird Plant Amphibian Fish	Both Contiguous Contiguous H
Ft. McClellan	TRADOC	AL	Bill Garland	205-848-7398	<i>Cyprinella caerulea</i> <i>Marshallia mohrii</i> <i>Myotis grisescens</i> <i>Picoides borealis</i> <i>Xyris tennesseensis</i>	Blue Shiner Mohr's Barbara Buttons Gray Bat Red-cockaded Woodpecker Tennessee Yellow-eyed Grass	T T T T	Fish Plant Mammal Bird Plant	Both Onsite Both Contiguous Both
Ft. McCoy	USARC	WI	Tim Wilder	608-388-5459	<i>Canis lupus</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i> <i>Lycaenidae melissa samuelis</i>	Gray Wolf Peregrine Falcon Bald Eagle Karner Blue Butterfly	E E(S/A) T E	Mammal Bird Bird Insect	Both Both Both Both
Ft. McNair	MDW	DC	Jewel Simmons	202-685-3387	No Species				
Ft. McPherson	FORSCOM	GA	Bert Bivings	404-669-7659	No Species				
Ft. Meyer	MDW	VA	Jewel Simmons	202-685-3387	No Species				
Ft. Monmouth	AMC	NJ	Dinkel Dasai	908-532-1475	No Species				
Ft. Monroe	TRADOC	VA	Bob Anderson	804-727-2077	No Species				
Ft. Pickett	USARC	VA	Alan Dyck	804-292-8501	<i>Haliaeetus leucocephalus</i> <i>Rhus michauxii</i>	Bald Eagle Michaux's Sumac	T E	Bird Plant	Both Onsite
Ft. Polk	FORSCOM	LA	Stephanie Stephens	318-531-6130	<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Both
Ft. Richardson	USARPAC	AK	William Gossweiler	907-384-3017	<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Onsite
Ft. Riley	FORSCOM	KS	Dave Jones	913-239-6211	<i>Charadrius melanotos</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i> <i>Macropygia geelvinkiana</i> <i>Notropis topeka</i> <i>Sterna antillarum</i>	Piping Plover Peregrine Falcon Bald Eagle Sturgeon Chub Topeka Shiner Least Tern	T E(S/A) T C C E	Bird Bird Bird Fish Fish Bird	Both Both Both Both Both Both
Ft. Ritchie	MDW	MD	Jewel Simmons	202-685-3387	No Species				
Ft. Rucker	TRADOC	AL	C. Mayo	334-255-2416	<i>Alligator mississippiensis</i> <i>Haliaeetus leucocephalus</i> <i>Myotis grisescens</i>	American Alligator Bald Eagle Gray Bat	T(S/A) T E	Reptile Bird Mammal	Both Contiguous Contiguous
Ft. Ruger	NGB	HI	Melissa Dumaran	808-733-4265	<i>Cyperus trachysanthos</i>	Pū'ukā'a	PE	Plant	Onsite

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Ft. Sam Houston	MEDCOM	TX	Jackie Schlatter	210-221-5093	<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both
					<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both
Ft. Sill	TRADOC	OK	Glen Wampler	405-442-4324	<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both
Ft. Stewart & Hunter Army Airfield	FORSCOM	GA	Tim Beaty	912-767-7261	<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Both
					<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both
					<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
					<i>Mycteria americana</i>	Wood Stork	E	Bird	Both
					<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Onsite
Ft. Totten	FORSCOM	NY	Bert Bivings	404-669-7659	No Species	American Peregrine Falcon	E	Bird	Onsite
Ft. Wainwright	USARPAC	AK	William Gossweiler	907-384-3017	<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	Bird	Onsite
Gardiner TS	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Grubbs/Kyle TC	NGB	TN	James Wicker	616-355-3778	No Species				
Hancock Army Complex	FORSCOM	NY	Bert Bivings	404-669-7659	No Species				
Hastings TS	NGB	NE	MAJ David Peterson	402-463-7192	No Species				
Hawthorne Army Depot	AMC	NV	Jim Purrell	702-945-7590	No Species				
Hollis Plains TS	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Holston AAP	AMC	TN	Gregory Lee	423-578-6276	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Indiana AAP	AMC	IN	Walt McClellan	812-284-7616	<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Contiguous
Iowa AAP	AMC	IA	Joe Haffner	319-753-7903	No Species	<i>Myotis sodalis</i>	E	Mammal	Contiguous
Jefferson Proving Ground	AMC	IN	Ken Knouf	812-273-2551	<i>Delissea subcordata</i>	'Oha	PE	Bird	Onsite
John Sevier Range	NGB	TN	Vernon Callahan	615-423-6655	No Species	Indiana Bat	E	Mammal	Onsite
Joliet AAP	AMC	IL	Arthur Holz	815-423-2877	No Species				

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur	
Keamuku LTA	NGB	HI	Melissa Dumaran	808-733-4265	<i>Anas wyvilliana</i> <i>Buteo solitarius</i> <i>Colubrina oppositifolia</i> <i>Haplostachys haplostachya</i> <i>Isodendron hosaikae</i> <i>Lasurus cinereus semotus</i> <i>Lipochaeta venosa</i> <i>Loxops coccineus coccineus</i> <i>Nesochen sandvicensis</i> <i>Nothocestrum breviflorum</i> <i>Oreomyts mana</i> <i>Portulaca sclerocarpa</i> <i>Tetramolopium arenarium</i> <i>Vigna o-wahuensis</i> <i>Zanthoxylum hawaiiense</i>	Hawaiian Duck Hawaiian Hawk Kauila No Common Name Alupaka Hawaiian Hoary Bat No Common Name Hawaii 'Akēpa Hawaiian Goose Aiea Hawaii Creeper Po'e No Common Name No Common Name Ae	E E E E E E E E E E E E E E E E	Bird Bird Plant Plant Plant Mammal Plant Bird Bird Plant Bird Plant Plant Plant Plant	Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite	Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite
Keaukaha Military Reservation	NGB	HI	Melissa Dumaran	808-733-4265	<i>Lasurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Plant	Onsite	
Kekaha LTA	NGB	HI	Melissa Dumaran	808-733-4265	<i>Anas wyvilliana</i> <i>Buteo solitarius</i> <i>Fulica americana alai</i> <i>Gallinula chloropus sandvicensis</i> <i>Himantopus mexicanus knudseni</i> <i>Lasurus cinereus semotus</i> <i>Nesochen sandvicensis</i>	Hawaiian Duck Hawaiian Hawk Hawaiian Coot Hawaiian Gallinule Hawaiian Stilt Hawaiian Hoary Bat Hawaiian Goose	E E E E E E E	Bird Bird Bird Bird Bird Mammal Bird	Contiguous Onsite Contiguous Contiguous Contiguous Both Both	Onsite Onsite Onsite Onsite Onsite Onsite Onsite
Lake City AAP	AMC	MO	Scott Smith	913-583-3000	No Species					
Leesburg TS	NGB	SC	C. Bryan Hall	803-806-2236	<i>Echinacea laevigata</i> <i>Lysimachia asperulaefolia</i> <i>Picoides borealis</i>	Smooth Coneflower Rough-leaved Loosestrife Red-cockaded Woodpecker	E E E	Plant Plant Bird	Onsite Onsite Onsite	
Letterkenny Army Depot	AMC	PE	Randy Quinn	717-267-8438	<i>Clemmys muhlenbergii</i>	Bog (Northern Population) Turtle	C	Reptile	Onsite	
Lil Aaron Straus Wilderness Area	NGB	MD	CPT Chris Cole	410-576-6132	<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	
Lima Army Tank Plant	AMC	OH	Phil Dawson	419-221-9537	No Species					
Longhorn AAP	AMC	TX	Paul Haggerty	318-459-5479	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	
Louisiana AAP	AMC	LA	Paul Haggerty	318-459-5479	<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	
Macon TS	NGB	MO	Eugene Young	573-526-9418	<i>Haliaeetus leucocephalus</i> <i>Myotis sodalis</i>	Bald Eagle Indiana Bat	T E	Bird Mammal	Both Contiguous	

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Makua Military Reservation	USARPAC HI	Steve Kim	808-656-2878	<i>Achatinella mustelina</i> var. <i>macrococcus</i>	Pupu Kuahiwi Mahoe A'a alahua	E E	Snail Plant	Both Both	
				<i>Alsinidendron obovatum</i>	No Common Name	E	Plant	Both	
				<i>Bonamia menziesii</i>	No Common Name	E	Plant	Onsite	
				<i>Caesalpinia kavaierense</i>	Uhiuhi	E	Plant	Onsite	
				<i>Cenchrus agrimonoides</i>	Kamanomano	PE	Plant	Onsite	
				<i>Chasiempis sandwichensis ibidis</i>	Oahu Elepaio	C	Bird	Both	
				<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Contiguous	
				<i>Cyanea superba ssp. <i>superba</i></i>	Oha	E	Plant	Onsite	
				<i>Deliessa subcordata</i>	'Oha	PE	Plant	Contiguous	
				<i>Dieffenbachia</i>	No Common Name	E	Plant	Both	
				<i>Dubautia herbostobatae</i>	Na'ena'e	E	Plant	Both	
				<i>Euphorbia haelleleana</i>	Akoko	PE	Plant	Onsite	
				<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Onsite	
				<i>Hedyotis parvula</i>	No Common Name	E	Plant	Both	
				<i>Lepidium arbuscula</i>	Anaunau	PE	Plant	Both	
				<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	Onsite	
				<i>Lobelia niihauensis</i>	Haha Oha	E	Plant	Contiguous	
				<i>Neraudia angulata var. <i>angulata</i></i>	Malaoa	E	Plant	Onsite	
				<i>Nototrichium humile</i>	Maaloa	E	Plant	Onsite	
				<i>Paroreomyza flammea</i>	Kulu'i	E	Plant	Both	
				<i>Plantago princeps var. <i>princeps</i></i>	Molokai Creeper	E	Bird	Both	
				<i>Pritchardia kaalae</i>	Laukahia Kuahiwi	E	Plant	Both	
				<i>Sanicula mariversa</i>	Loulu	PE	Plant	Onsite	
				<i>Schiiedea hookeri</i>	No Common Name	E	Plant	Both	
				<i>Schiiedea nuttallii</i>	No Common Name	PE	Plant	Both	
				<i>Silene lancolata</i>	No Common Name	PE	Plant	Onsite	
				<i>Spermolepis hawaiiensis</i>	Lanceleaf Catchfly	E	Plant	Onsite	
				<i>Tetramolopium filiforme</i>	Hawaiian Parsley	E	Plant	Both	
				var. <i>polphyllum</i>	No Common Name	E	Plant	Both	
				<i>Tetramolopium lepidotum</i>	No Common Name	E	Plant	Contiguous	
				ssp. <i>lepidotum</i>	Pamakanai	E	Plant	Onsite	
				<i>Viola chamaissioniana</i>	ssp. <i>chamaissioniana</i>				
Marseilles TA	NGB	IL	Jon Cassebeer	217-785-3592	No Species				
Martinez Reserve Center	USARC	FL	John Nettles	305-378-4822	<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid Spurge	E	Plant	Both
McAlester AAP	AMC	OK	Bill Starry	918-421-2611	<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Both
Mead TS	NGB	NE	CPT Vic Siedler	402-944-2150	No Species				
Milan AAP	AMC	TN	Cooper Stephens	901-686-6611	No Species				

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Milan TS	NGB	TN	Jerry Yearwood	901-783-3975	No Species				
Natick RD&E Center	AMC	MA	C/O Rich Clewell	309-782-8252	No Species				
NE-ARNG	NGB	NE	CPT David Wunibald	402-471-7136	No Species				
New Jersey National Guard	NGB	NJ	Dean Arrighi	609-530-7136	No Species				
Newport Chemical Depot	AMC	IN	Phillip Cox	317-245-4324	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Oakland Army Base	MTMC	CA	Richard Andrews	510-466-2694	No Species				
Orchard TA	NGB	ID	Dana Quinney	208-422-4181	No Species				
Parks RFTA	USARC	CA	Marshall Marik	510-803-5638	<i>Rana aurora draytoni</i>	California Red-Legged Frog	PE	Amphibian	Both
Picatinny Arsenal Tacom-ARDEC	AMC	NJ	Jon Vandeventer	201-724-4691	<i>Clemmys mihhlenbergii</i>	San Joaquin Kit Fox	E	Mammal	Contiguous
Pine Bluff Arsenal	AMC	AR	Charles Becker	501-540-2834	<i>Falco peregrinus anatum</i>	Bog (Northern Population) Turtle	C	Reptile	
Pinon Canyon Maneuver Site	FORSCOM CO	CO	Dave Anderson	715-526-4683	<i>Haliaeetus leucocephalus</i>	American Peregrine Falcon	E	Bird	Both
Plymouth TS	NGB	ME	MAJ Tim Bowman	207-626-4395	<i>Myotis sodalis</i>	Bald Eagle	T	Bird	Both
					<i>Alligator mississippiensis</i>	Indiana Bat	E	Mammal	Both
					<i>Haliaeetus leucocephalus</i>	American Alligator	T(S/A)	Reptile	Both
					<i>Charadrius montanus</i>	Bald Eagle	T	Bird	Both
					<i>Falco peregrinus anatum</i>	Mountain Plover	C	Bird	Both
					<i>Haliaeetus leucocephalus</i>	American Peregrine Falcon	E	Bird	Both
					<i>Vulpes velox</i>	Bald Eagle	T	Bird	Both
						Swift Fox	C	Mammal	Both

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Pu'u Pa LTA	NGB	HI	Melissa Dumaran	808-733-4265	<i>Buteo solitarius</i> <i>Colubrina oppositifolia</i> <i>Lasius cinereus semotus</i> <i>Lipochaeta venosa</i> <i>Loxops coccineus coccineus</i> <i>Nothocestrum breviflorum</i> <i>Oreomytis mana</i> <i>Portulaca sclerocarpa</i> <i>Sterogyne angustifolia</i> <i>Tetramolopium arenarium</i> <i>arenarium</i>	Hawaiian Hawk Kauila Hawaiian Hoary Bat No Common Name Hawaii 'Akepa Aleia Hawaii Creeper Pōe No Common Name No Common Name	E E Mammal Plant Bird Plant Bird Plant Bird Plant Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite	Bird Plant Mammal Plant Bird Plant Bird Plant Plant Onsite Onsite Onsite	Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite Onsite
Radford AAP	AMC	VA	Charles Chase	540-693-8649	<i>Echinacea laevigata</i> <i>Polygoniscus virginianus</i>	Smooth Coneflower Virginia Fringed Mountain Snail	E	Plant Snail	Contiguous Both
Ravenna AAP	AMC	OH	Tim Morgan	330-358-7311	<i>Aconitum noveboracense</i> <i>Haliaeetus leucocephalus</i> <i>Myotis sodalis</i>	Northern Wild Monkshood Bald Eagle Indiana Bat	T T E	Plant Bird Mammal	Contiguous Contiguous Contiguous
Red River Army Depot	AMC	TX	Bennie Murray	903-334-2379	No Species				
Redstone Arsenal	AMC	AL	Danny Dunn	205-955-6970	<i>Alligator mississippiensis</i> <i>Apis prceana</i> <i>Falco peregrinus anatum</i> <i>Haliaeetus leucocephalus</i> <i>Myotis griseescens</i> <i>Palaemonias alabamae</i>	American Alligator Price's Potato Bean American Peregrine Falcon Bald Eagle Gray Bat Alabama Cave Shrimp	T(S/A) T E T E E	Reptile Plant Bird Mammal Crustacean	Both Onsite Both Both Both Both
Regional Training Institute	NGB	NH	Zachary Boyajian	603-228-1135	<i>Isotria medeoloides</i>	Small Whorled Pogonia	T	Plant	Contiguous
Riley-Bog Brook TS	NGB	ME	MAJ Tim Bowman	207-626-4395	No Species				
Rock Island Arsenal	AMC	IL	Rich Todd	309-782-2045	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Savanna Army Depot Activity	AMC	IL	Bob Speaker	815-273-8553	<i>Haliaeetus leucocephalus</i> <i>Lampsilis higginsi</i> <i>Myotis sodalis</i>	Bald Eagle Higgins' Eye Pearl mussel Indiana Bat	T E E	Bird Clam Mammal	Both Both Contiguous

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Schofield Barracks Military Reservation (Cont'd)	USARPAC HI	Steven Kim	808-056-2878	<i>Pteris lidgei</i>	No Common Name	E	Plant	Onsite	
				<i>Sanicula purpurea</i>	No Common Name	PE	Plant	Both	
				<i>Schiedia hookeri</i>	No Common Name	PE	Plant	Both	
				<i>Schiedia nuttallii</i>	No Common Name	PE	Plant	Contiguous	
				<i>Solanum sandwicense</i>	Popolo `Aiakeakua	E	Plant	Contiguous	
				<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Contiguous	
				<i>Tetramolopium lepidotum</i>	No Common Name	E	Plant	Contiguous	
				ssp. <i>lepidotum</i>	`Ohe`ohe	E	Plant	Both	
				<i>Urena kaalae</i>	Opuhe	E	Plant	Both	
				<i>Tetraplasandra gymnocarpa</i>	Pamakani	E	Plant	Both	
				ssp. <i>chamissoniana</i>	No Common Name	PE	Plant	Both	
				<i>Viola cahuensis</i>	No Common Name				
Sea Girt National Guard TC	NGB	NJ	Donald Beck	908-374-5950	No Species				
Seneca Army Depot	AMC	NY	Michael Stofka	607-869-1532	No Species				
Sierra Army Depot	AMC	CA	John Colberg	916-827-4454	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both
					<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Skelton TS	NGB	MO	Eugene Young	573-326-9418	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
					<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	E	Clam	Contiguous
					<i>Macchybopsis gelida</i>	Sturgeon Chub	C	Fish	Contiguous
					<i>Macchybopsis meeki</i>	Sicklefin Chub	C	Fish	Contiguous
					<i>Myotis griseescens</i>	Gray Bat	E	Mammal	Contiguous
					<i>Notropis topeka</i>	Topeka Shiner	C	Fish	Contiguous
					<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	Fish	Contiguous
					<i>Sterna antillarum</i>	Least Tern	E	Bird	Both
St. George Armory	NGB	UT	Douglas Johnson	801-576-3960	<i>Arctomecon humilis</i>	Dwarf Beardlaw Poppy	E	Plant	Both
State Military Reservation	NGB	NV	Zachary Boyajan	603-228-1135	<i>Lycaeides melissa samuelis</i>	Karner Blue Butterfly	E	Insect	Contiguous
Stead TS	NGB	KS	Loren Brazell	702-887-7276	<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Both
					<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both
Sunflower AAP	AMC	KS	Scott Smith	913-583-3000	<i>Asclepias meadii</i>	Mead's Milkweed	T	Plant	Contiguous
					<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Contiguous
					<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both

Installation	MACOM	State	POC	Phone	Scientific Name	Common Name	Fed stat	Cat	Occur
Wappapello TS	NGB	MO	Eugene Young	573-526-9418	<i>Haliaeetus leucocephalus</i> <i>Lampsilis abrupta</i> <i>Lindera melissifolia</i>	Bald Eagle Pink Mucket Pearlymussel Pondberry	T E E	Bird Clam Plant	Contiguous Contiguous Contiguous
Watervliet Arsenal	AMC	NY	C/O Rich Clewell	309-782-8252	No Species				
West Point	USMA	NY	James Beemer	914-938-2314	<i>Acipenser brevirostrum</i> <i>Haliaeetus leucocephalus</i>	Shortnose Sturgeon Bald Eagle	E T	Fish Bird	Both Both
Western KentuckyTS	NGB	KY	CW4 Joe Wilkins	502-338-5541	<i>Myotis griseescens</i>	Gray Bat	E	Mammal	Both
White Sands Missile Range	AMC	NM	Dave Anderson	505-678-7817	<i>Charadrius montanus</i> <i>Empidonax traillii extimus</i> <i>Falco femoralis septentrionalis</i> <i>Falco peregrinus anatum</i> <i>Haliaeetus leucocephalus</i> <i>Hedeoma rodensii</i> <i>Strix occidentalis lucida</i>	Mountain Plover Southwestern Willow Flycatcher Northern Apolomado Falcon American Peregrine Falcon Bald Eagle Todsen's Pennyroyal Mexican Spotted Owl	C E E E T E T	Bird Bird Bird Bird Bird Plant Bird	Contiguous Contiguous Both Both Both Both Contiguous
WI-ARNG	NGB	WI	Kerry Nicholls	608-242-3359	No Species				
Yakima TC	FORSCOM	WA	Margaret Pounds	509-577-3402	<i>Erigeron basalticus</i> <i>Falco peregrinus</i> <i>Haliaeetus leucocephalus</i> var. nicholii	Basalt Daisy Peregrine Falcon Bald Eagle Gopherus agassizii (Sonoran Population)	C E(S/A) T	Plant Bird Plant	Both Both Onsite
Yuma Proving Ground	AMC	AZ	Junior Kerns	520-328-2148	<i>Echinocactus horizonthalonius</i>	Nicholl's Turks Head Cactus	E	Plant	
					<i>Sonoran</i>	Sonoran Population of the Desert Tortoise	T(S/A)	Reptile	Both

Appendix B: Critical Habitat and ESMP Status for Onsite and Contiguous TEPC Species, With Corresponding Installations

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Abutilon sandwicense</i>	No Common Name	E	Plant	Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella rosea</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
<i>Achatinella apexfulva</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
				Onsite	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella bulimoides</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
<i>Achatinella byronii</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella curta</i>	Pupu Kuahiwi	E	Snail	Contig.	USARPAC	Kahuku TA	None	In Preparation
<i>Achatinella decipiens</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella dimorpha</i>	Pupu Kuahiwi	E	Snail	Contig.	USARPAC	Kahuku TA	None	In Preparation
<i>Achatinella leucorraphe</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella lila</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawaiola TA	None	In Preparation
<i>Achatinella livida</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Kawaiola TA	None	In Preparation
<i>Achatinella mustelina</i>	Pupu Kuahiwi	E	Snail	Both	USARPAC	Makua MR	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella pulcherrima</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
<i>Achatinella sowerbyana</i>	Pupu Kuahiwi	E	Snail	Contig.	USARPAC	Kahuku TA	None	In Preparation
				Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella swiftii</i>	Pupu Kuahiwi	E	Snail	Onsite	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Achatinella valida</i>	Pupu Kuahiwi	E	Snail	Contig.	USARPAC	Kahuku TA	None	In Preparation
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon	E	Fish	Contig.	AMC	Aberdeen Proving Ground	None	None
				Contig.	NGB	Camp Smith	None	None
				Contig.	NGB	Delaware ARNG	None	None
				Both	FORSCOM	Ft. Stewart & Hunter Army Airfield	None	In Preparation
				Contig.	MTMC	Sunny Point	None	None
				Both	USMA	West Point	None	In Preparation
<i>Aconitum noveboracense</i>	Northern Wild Monkshood	T	Plant	Contig.	AMC	Ravenna AAP	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Adenophorus periens</i>	No Common Name	E	Plant	Onsite	USARPAC	Kahuku TA	None	In Preparation
				Onsite	USARPAC	Kawaihoa TA	None	In Preparation
<i>Alectryon macrococcus</i>	Mahoe Ala'alahaia	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	Reptile	Both	NGB	Camp Blanding TS	None	Completed
				Both	TRADOC	Ft. Benning	None	In Preparation
				Onsite	TRADOC	Ft. Jackson	None	None
				Both	TRADOC	Ft. Rucker	None	None
				Both	AMC	Longhorn AAP	None	None
				Both	AMC	Louisiana AAP	None	None
				Both	AMC	Pine Bluff Arsenal	None	None
				Both	AMC	Redstone Arsenal	None	None
				Both	MTMC	Sunny Point	None	In Preparation
<i>Alsinidendron obovatum</i>	No Common Name	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
<i>Alsinidendron trinerve</i>	No Common Name	E	Plant	Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Amaranthus pumilus</i>	Seabeach Amaranth	T	Plant	Contig.	MTMC	Sunny Point	None	None
<i>Amblyopsis rosae</i>	Ozark Cavefish	T	Fish	Contig.	NGB	Camp Crowder	None	In Preparation
<i>Ambystoma californiense</i>	Ambystoma Californiense	C	Amphibian	Both	TRADOC	Ft. Huachuca	NA	NA
				Both	USARC	Ft. Hunter Liggett	NA	NA
<i>Anas wyvilliana</i>	Hawaiian Duck	E	Bird	Onsite	NGB	Aahoaka & Wailua River LTA	None	None
				Both	NGB	Anahola LTA	None	None
				Both	USARPAC	Dillingham TA	None	In Preparation
				Onsite	NGB	Keamuku LTA	None	None
				Contig.	NGB	Kekaha LTA	None	None
<i>Anniella pulchra nigra</i>	California Black Legless Lizard	PE	Reptile	Both	TRADOC	Pom Annex	NA	Completed
<i>Aphelocoma coerulescens</i>	Florida Scrub Jay	T	Bird	Both	NGB	Camp Blanding TS	None	Completed
<i>Apis priceana</i>	Price's Potato Bean	T	Plant	Contig.	FORSCOM	Ft. Campbell	None	None
				Onsite	AMC	Redstone Arsenal	None	In Preparation
<i>Arctomecon humilis</i>	Dwarf Bearclaw Poppy	E	Plant	Both	NGB	St. George Armory	None	Completed
<i>Asclepias meadii</i>	Mead's Milkweed	T	Plant	Contig.	NGB	Camp Clark	None	None
				Contig.	AMC	Sunflower AAP	None	None
				Contig.	NGB	Truman TS	None	None
<i>Asplenium fragile</i> <i>var. insulare</i>	Fragile Fern	E	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
<i>Astragalus jaegerianus</i>	Lane Mountain Milk Vetch	C	Plant	Both	FORSCOM	Ft. Irwin	NA	NA
<i>Banara vanderbiltii</i>	Palo de Ramon	E	Plant	Onsite	FORSCOM	Ft. Buchanan	None	None
<i>Bonamia menziesii</i>	No Common Name	E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
<i>Branchinecta lynchii</i>	Vernal Pool Fairy Shrimp	T	Crustacean	Both	NGB	Camp Roberts	None	None
				Onsite	USARC	Ft. Hunter Liggett	None	In Preparation

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Bufo microscaphus</i> <i>californicus</i>	Arroyo Southwestern Toad	E	Amphibian	Onsite	USARC	Ft. Hunter Liggett	None	In Preparation
<i>Buteo solitarius</i>	Hawaiian Hawk	E	Bird	Onsite Onsite Both Onsite	NGB NGB USARPAC NGB	Keamuku LTA Kekaha LTA Pohakuloa TA Pu'u Pa LTA	None None None None	None None In Preparation None
<i>Buxus vahlii</i>	Vahl Boxwood	E	Plant	Onsite	FORSCOM	Ft. Buchanan	None	None
<i>Caesalpinia kavaiense</i>	Uhiuhi	E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
<i>Canis lupus</i>	Gray Wolf	T	Mammal	Both Contig.	NGB USARC	Camp Ripley Ft. McCoy	None None	In Preparation None
<i>Caretta caretta</i>	Loggerhead Sea Turtle	T	Reptile	Contig.	MTMC	Sunny Point	None	None
<i>Cenchrus agrimonoides</i>	Kamanomano	PE	Plant	Onsite Onsite	USARPAC USARPAC	Makua MR Schofield Barracks MR	NA NA	In Preparation In Preparation
<i>Chamaesyce deltoidea</i> ssp. <i>deltoidea</i>	Deltoid Spurge	E	Plant	Both	USARC	Martinez Reserve Cen- ter	None	Completed
<i>Chamaesyce rockii</i>	Akoko	PE	Plant	Contig. Both Both	USARPAC USARPAC USARPAC	Kahuku TA Kawaiola TA Schofield Barracks MR	NA NA NA	In Preparation In Preparation In Preparation
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover	T	Bird	Both	TRADOC	Pom Annex	None	Completed
<i>Charadrius melanotos</i>	Piping Plover	T	Bird	Both Both Contig.	NGB FORSCOM MTMC	Camp Grafton Ft. Riley Sunny Point	None None None	None In Preparation None
<i>Charadrius montanus</i>	Mountain Plover	C	Bird	Contig. Both Both Contig.	AMC FORSCOM FORSCOM AMC	Dugway Proving Ground Ft. Carson Pinon Canyon MS White Sands Missile Rng.	NA NA NA NA	NA NA NA NA
<i>Chasiempis sandwichensis ibidis</i>	Oahu 'Elepaio	C	Bird	Contig. Both Both Both	USARPAC USARPAC USARPAC USARPAC	Kahuku TA Kawaiola TA Makua MR Schofield Barracks MR	NA NA NA NA	NA NA NA NA
<i>Chelonia mydas</i>	Green Sea Turtle	T	Reptile	Contig.	MTMC	Sunny Point	None	None
<i>Chlorogalium purpureum</i> var. <i>purpureum</i>	Purple Amole	C	Plant	Onsite	USARC	Ft. Hunter Liggett	NA	NA
<i>Chorizanthe pungens</i> var. <i>pungens</i>	Monterey Spineflower	T	Plant	Both	TRADOC	Pom Annex	None	Completed
<i>Chorizanthe robusta</i>	Robust Spineflower	E	Plant	Both	TRADOC	Pom Annex	None	Completed
<i>Cicindela puritana</i>	Puritan Tiger Bee- tle	T	Insect	Contig.	AMC	Aberdeen Proving Ground	None	None
<i>Cirsium fontinale</i> var. <i>obispense</i>	Chorro Creek Bog Thistle	E	Plant	Both	NGB	Camp San Luis Obispo	None	In Preparation
<i>Clematis hirsutissima</i> var. <i>arizonica</i>	Arizona Leather Flower	C	Plant	Both	NGB	Camp Navajo MR	NA	NA

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Clemmys muhlenbergii</i>	Bog (Northern Population) Turtle	C	Reptile	Onsite Contig.	AMC AMC	Letterkenny Army Depot Picatinny Arsenal Tacom-ARDEC	NA NA	NA
<i>Colubrina oppositifolia</i>	Kauila	E	Plant	Onsite Onsite	NGB NGB	Keamuku LTA Pu'u Pa LTA	None None	None
<i>Corvus hawaiiensis</i>	Alala Hawaiian Crow	E	Bird	Contig.	USARPAC	Pohakuloa TA	None	In Preparation
<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Sneed Pincushion Cactus	E	Plant	Both	TRADOC	Ft. Bliss	None	In Preparation
<i>Ctenitis squamigera</i>	Pauoa	E	Plant	Contig. Contig.	USARPAC USARPAC	Makua MR Schofield Barracks MR	None None	In Preparation
<i>Cyanea acuminata</i>	Haha Oha	PE	Plant	Both Both	USARPAC USARPAC	Kawaiola TA Schofield Barracks MR	None NA	In Preparation
<i>Cyanea grimesiana</i> ssp. <i>grimesiana</i>	Haha Oha	E	Plant	Contig. Both Both Contig.	USARPAC USARPAC USARPAC USARPAC	Kahuku TA Kawaiola TA Schofield Barracks MR Schofield Barracks MR	None None None None	In Preparation
<i>Cyanea koolauensis</i>	Haha Oha	PE	Plant	Both Both Both	USARPAC USARPAC USARPAC	Kahuku TA Kawaiola TA Schofield Barracks MR	NA NA NA	In Preparation
<i>Cyanea longiflora</i>	Haha Oha	PE	Plant	Both Both Both	USARPAC USARPAC USARPAC	Kahuku TA Kawaiola TA Schofield Barracks MR	NA NA NA	In Preparation
<i>Cyanea superba</i> spp. <i>superba</i>	Oha	E	Plant	Onsite Onsite	USARPAC USARPAC	Makua MR Schofield Barracks MR	None None	In Preparation
<i>Cynomys parvidens</i>	Utah Prairie Dog	T	Mammal	Contig.	NGB	Cedar City Armory	None	None
<i>Cyperus trachysanthos</i>	Pu'uka'a	PE	Plant	Onsite	USARPAC	Dillingham TA	NA	In Preparation
				Onsite	NGB	Ft. Ruger	NA	None
<i>Cyprinella caerulea</i>	Blue Shiner	T	Fish	Both	TRADOC	Ft. McClellan	None	Completed
<i>Cyrtandra dentata</i>	Ha'iwale	PE	Plant	Onsite	USARPAC	Kawaiola TA	NA	In Preparation
<i>Cyrtandra subumbellata</i>	Ha'iwale	PE	Plant	Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Cyrtandra viridiflora</i>	Ha'iwale	PE	Plant	Both	USARPAC	Kawaiola TA	NA	In Preparation
<i>Daphnopsis hellerana</i>	No Common Name	E	Plant	Onsite	FORSCOM	Ft. Buchanan	None	None
<i>Delissea subcordata</i>	`Oha	PE	Bird	Onsite	AMC	Jefferson Proving Ground	NA	None
				Contig.	USARPAC	Kawaiola TA	NA	In Preparation
				Contig.	USARPAC	Makua MR	NA	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	E	Bird	Both Both	FORSCOM MEDCOM	Ft. Hood Ft. Sam Houston	None None	In Preparation
<i>Dendroica kirtlandii</i>	Kirtland's Warbler	E	Bird	Both	NGB	Camp Grayling	None	Completed
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle	E	Reptile	Contig.	MTMC	Sunny Point	None	None
<i>Diellia falcata</i>	No Common Name	E	Plant	Both Both	USARPAC USARPAC	Makua MR Schofield Barracks MR	None None	In Preparation
<i>Diplazium molokaiense</i>	No Common Name	E	Plant	Contig.	USARPAC	Schofield Barracks MR	None	In Preparation

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Dromus dromas</i>	Dromedary Pearly Mussel	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
<i>Drymarchon corais couperi</i>	Eastern Indigo Snake	T	Reptile	Both Both	NGB FORSCOM	Camp Blanding TS Ft. Stewart & Hunter Army Airfield	None None	Completed In Preparation
<i>Dubautia herbstobatae</i>	Na`ena`e	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
<i>Echinacea laevigata</i>	Smooth Coneflower	E	Plant	Onsite	TRADOC	Ft. Jackson	None	In Preparation
				Onsite Contig.	NGB AMC	Leesburg TS Radford AAP	None	In Preparation NR
<i>Echinocactus horizontalthaloni</i> var. <i>nicholii</i>	Nichol's Turk's Head Cactus	E	Plant	Onsite	AMC	Yuma Proving Ground	None	None
<i>Echinocereus fendleri var. kuenzleri</i>	Kuenzler Hedgehog Cactus	E	Plant	Contig.	TRADOC	Ft. Bliss	None	None
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	E	Bird	Both Both Contig. Contig.	NGB TRADOC TRADOC AMC	Clark County TS Ft. Bliss Ft. Huachuca White Sands Missile Rng.	None None	None In Preparation None None
<i>Epicrates inornatus</i>	Puerto Rican Boa	E	Reptile	Onsite	FORSCOM	Ft. Buchanan	None	None
<i>Epioblasma walkeri</i>	Tan Riffleshell	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
<i>Eragrostis fosbergii</i>	Fosberg's Love Grass	PE	Plant	Contig.	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Erigeron basalticus</i>	Basalt Daisy	C	Plant	Both	FORSCOM	Yakima TC	NA	NA
<i>Erigeron lemmonii</i>	Lemmon Fleabane	C	Plant	Onsite	TRADOC	Ft. Huachuca	NA	NA
<i>Etheostoma cragini</i>	Arkansas Darter	C	Fish	Contig. Both	NGB FORSCOM	Camp Crowder Ft. Carson	NA NA	NA
<i>Etheostoma sellare</i>	Maryland Darter	E	Fish	Contig.	AMC	Aberdeen Proving Ground	None	None
<i>Eugenia koolauensis</i>	Nioi	E	Plant	Onsite Contig.	USARPAC USARPAC	Kahuku TA Kawaiola TA	None None	In Preparation In Preparation
<i>Euphilotes enoptes smithi</i>	Smith's Blue Butterfly	E	Insect	Both	TRADOC	Pom Annex	None	Completed
<i>Euphorbia haeleleiana</i>	`Akoko	PE	Plant	Onsite	USARPAC	Makua MR	NA	In Preparation
<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	E	Bird	Contig. Both	TRADOC AMC	Ft. Bliss White Sands Missile Rng.	None None	In Preparation In Preparation
<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	Bird	Contig.	AMC	Aberdeen Proving Ground	None	None
				Both Contig. Both Both Both Both	NGB NGB USARC FORSCOM TRADOC FORSCOM	Camp Navajo MR Camp Smith Devens RFT.A Ft. Campbell Ft. Eustis Ft. Hood Ft. Huachuca Ft. McCoy	None None None None None None None None	NR None None None In Preparation In Preparation None None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
				Both	FORSCOM	Ft. Riley	None	In Preparation
				Both	AMC	Sierra Army Depot	None	None
				Both	NGB	Stead TS	None	Completed
				Contig.	AMC	Sunflower AAP	None	None
				Contig.	MTMC	Sunny Point	None	None
				Contig.	FORSCOM	Yakima TC	None	NR
<i>Falco peregrinus</i>	American Peregrine Falcon	E	Bird	Contig.	AMC	Dugway Proving Ground	None	None
				Both	TRADOC	Ft. Bliss	None	In Preparation
				Both	FORSCOM	Ft. Carson	NR	NR
				Onsite	USARPAC	Ft. Greely	None	NR
				Both	USARC	Ft. Hunter Liggett	None	None
				Onsite	USARPAC	Ft. Richardson	None	NR
				Onsite	USARPAC	Ft. Wainwright	None	NR
				Both	AMC	Picatinny Arsenal Tacom-ARDEC	None	None
				Both	FORSCOM	Pinon Canyon MS	NR	NR
				Both	AMC	Redstone Arsenal	None	None
				Both	AMC	Tooele Army Depot	None	None
				Both	AMC	White Sands Missile Rng.	None	In Preparation
<i>Felis concolor coryi</i>	Florida Panther	E	Mammal	NR	NGB	Camp Blanding TS	NR	NR
<i>Felis concolor cougar</i>	Eastern Cougar	E	Mammal	Both	MTMC	Sunny Point	None	None
<i>Flueggea neowawraea</i>	Mehamehame	E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Fulica americana alai</i>	Hawaiian Coot	E	Bird	Both	USARPAC	Dillingham TA	None	In Preparation
				Contig.	NGB	Kekaha LTA	None	NR
<i>Gallinula chloropus</i>	Hawaiian sandvicensis	E	Bird	Onsite	NGB	Aahoaka & Wailua River LTA	None	None
				Both	USARPAC	Dillingham TA	None	In Preparation
				Contig.	NGB	Kekaha LTA	None	NR
<i>Gardenia mannii</i>	Nanu	PE	Plant	Both	USARPAC	Kahuku TA	NA	In Preparation
				Both	USARPAC	Kawaihoa TA	NA	In Preparation
				Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Gilia tenuiflora</i>	Monterey Sand Gilia	E	Plant	Both	TRADOC	Pom Annex	None	Completed
<i>ssp. arenaria</i>								
<i>Gopherus agassizii</i>	Desert Tortoise	T	Reptile	Both	NGB	Clark County TS	None	None
				Both	FORSCOM	Ft. Irwin	Yes	In Preparation
<i>Gopherus agassizii</i>	Sonoran Population of Desert Tortoise	T(S/A)	Reptile	Both	AMC	Yuma Proving Ground	None	None
<i>Gopherus polyphemus</i>	Gopher Tortoise	T	Reptile	Both	NGB	Camp Shelby	None	In Preparation
<i>Grus americana</i>	Whooping Crane	E	Bird	Both	FORSCOM	Ft. Hood	None	In Preparation
<i>Gymnogyps californianus</i>	California Condor	E	Bird	Contig.	USARC	Ft. Hunter Liggett	None	None
<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	Bird	Both	AMC	Aberdeen Proving Ground	None	Completed
				Onsite	AMC	Adelphi Army Research Labs	None	Completed
				Both	NGB	Atterbury Reserve Forces TA	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
				Both	NGB	Camp Blanding TS	None	Completed
				Both	NGB	Camp Crowder	None	In Preparation
				Both	NGB	Camp Grayling	None	Completed
				Contig.	NGB	Camp Guernsey	None	None
				Both	NGB	Camp Joseph T. Robinson	None	None
				Both	NGB	Camp Murray	None	Completed
				Both	NGB	Camp Navajo MR	None	In Preparation
				Onsite	NGB	Camp Ripley	None	Completed
				Both	NGB	Camp Roberts	None	None
				Contig.	NGB	Camp Smith	None	None
				Both	USARC	Devens RFT.A	None	None
				Both	AMC	Dugway Proving Ground	None	None
				Both	MDW	Ft. A.P. Hill	None	Completed
				Both	MDW	Ft. Belvoir	None	In Preparation
				Both	TRADOC	Ft. Benning	None	In Preparation
				Both	TRADOC	Ft. Bliss	None	In Preparation
				Both	FORSCOM	Ft. Campbell	None	None
				Both	FORSCOM	Ft. Carson	NR	NR
				Both	TRADOC	Ft. Eustis	None	In Preparation
				Onsite	TRADOC	Ft. Gordon	None	In Preparation
				Both	FORSCOM	Ft. Hood	None	In Preparation
				Both	USARC	Ft. Hunter Liggett	None	In Preparation
				Onsite	TRADOC	Ft. Jackson	None	None
				Both	TRADOC	Ft. Knox	None	In Preparation
				Both	TRADOC	Ft. Lee	None	In Preparation
				Both	FORSCOM	Ft. Lewis	None	Completed
				Both	USARC	Ft. McCoy	None	None
				Both	USARC	Ft. Pickett	None	None
				Both	FORSCOM	Ft. Riley	None	In Preparation
				Contig.	TRADOC	Ft. Rucker	None	None
				Both	FORSCOM	Ft. Stewart & Hunter Army Airfield	None	In Preparation
				Both	AMC	Holston AAP	None	In Preparation
				Both	NGB	Macon TS	None	In Preparation
				Both	AMC	Newport Chemical Depot	None	None
				Both	AMC	Picatinny Arsenal Tacom-ARDEC	None	None
				Both	AMC	Pine Bluff Arsenal	None	None
				Both	FORSCOM	Pinon Canyon MS	NR	NR
				Contig.	AMC	Ravenna AAP	None	None
				Both	AMC	Redstone Arsenal	None	None
				Both	AMC	Rock Island Arsenal	None	None
				Both	AMC	Savanna Army Depot	None	Completed
				Both	AMC	Sierra Army Depot	None	None
				Both	NGB	Skelton TS	None	In Preparation
				Both	NGB	Stead TS	None	Completed
				Both	AMC	Sunflower AAP	None	None
				Both	MTMC	Sunny Point	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
				Both	AMC	Tooele Army Depot	None	None
				Both	NGB	Truman TS	None	In Preparation
				Both	AMC	Twin Cities AAP	None	None
				Contig.	NGB	Wappapello TS	None	None
				Both	USMA	West Point	None	In Preparation
				Both	AMC	White Sands Missile Rng.	None	None
				Both	FORSCOM	Yakima TC	None	None
<i>Haplostachys haplostachya</i>	No Common Name	E	Plant	Onsite	NGB	Keamuku LTA	None	None
				Both	USARPAC	Pohakuloa TA	None	In Preparation
<i>Hedeoma todsenii</i>	Todsen's Pennyroyal	E	Plant	Contig.	TRADOC	Ft. Bliss	None	None
				Both	AMC	White Sands Missile Rng.	None	None
<i>Hedyotis coriacea</i>	Kio'ele	E	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
<i>Hedyotis parvula</i>	No Common Name	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
<i>Helianthus eggertii</i>	Eggert's Sunflower	PT	Plant	Both	NGB	Tullahoma TS	NA	In Preparation
<i>Helonias bullata</i>	Swamp Pink	T	Plant	Onsite	MDW	Ft. A.P. Hill	None	None
<i>Hemignathus munroi</i>	'Akiapola`au (Honeycreeper)	E	Bird	Both	USARPAC	Pohakuloa TA	None	In Preparation
<i>Hesperomannia arborescens</i>	No Common Name	E	Plant	Both	USARPAC	Kahuku TA	None	In Preparation
				Both	USARPAC	Kawaihoa TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Hibiscus brackenridgei</i> ssp. <i>mokuleianus</i>	Ma'o Hau Hele	E	Plant	Contig.	USARPAC	Dillingham TA	None	In Preparation
<i>Himantopus mexicanus</i>	Hawaiian Stilt	E	Bird	Both	USARPAC	Dillingham TA	None	In Preparation
				Contig.	NGB	Kekaha LTA	None	NR
<i>Howellia aquatilis</i>	Water Howellia	T	Plant	Both	FORSCOM	Ft. Lewis	None	In Preparation
<i>Hymenoxys texana</i>	Texas Prairie Dawn-flower	E	Plant	Both	NGB	Addicks Reservoir	None	NR
<i>Isodendrion hosakae</i>	Aupaka	E	Plant	Onsite	NGB	Keamuku LTA	None	None
<i>Isodendrion laurifolium</i>	Aupaka	PE	Plant	Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Isoetes louisianensis</i>	Lousiana Quillwort	E	Plant	Both	NGB	Camp Shelby	None	None
<i>Isotria medeoloides</i>	Small Whorled Pogonia	T	Plant	Onsite	MDW	Ft. A.P. Hill	None	None
				Contig.	NGB	Regional Training Institute	None	None
<i>Labordia cyrtandrae</i>	Kamakahala	PE	Plant	Both	USARPAC	Kawaihoa TA	NA	In Preparation
				Onsite	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Lampsilis abrupta</i>	Pink Mucket Pearlymussel	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
				Contig.	NGB	Skelton TS	None	In Preparation
				Contig.	NGB	Wappapello TS	None	None
<i>Lampsilis higginsi</i>	Higgins' Eye Pearlymussel	E	Clam	Both	AMC	Savanna Army Depot	None	None
<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	Mammal	Both	NGB	Aahoaka & Wailua River LTA	None	None
				Both	USARPAC	Kawaihoa TA	None	In Preparation

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
				Onsite	NGB	Keamuku LTA	None	None
				Onsite	NGB	Keaukaha MR	None	None
				Both	NGB	Kekaha LTA	None	None
				Both	USARPAC	Pohakuloa TA	None	In Preparation
				Onsite	NGB	Pu'u Pa LTA	None	None
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Lepidium arbuscula</i>	Anaunau	PE	Plant	Both	USARPAC	Makua MR	NA	In Preparation
				Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Lepidochelys kempii</i>	Kemp's Ridley Sea Turtle	E	Reptile	Contig.	MTMC	Sunny Point	None	None
<i>Leptonycteris curasoae</i>	Lesser Long-nosed Bat	E	Mammal	Both	TRADOC	Ft. Huachuca	None	None
<i>yerbabuena</i>								
<i>Lespedeza leptostachya</i>	Prairie Bush Clover	T	Plant	Contig.	AMC	Badger AAP	None	None
<i>Lilaeopsis schaffneriana</i> ssp. <i>recurva</i>	Huachuca Water-umbel	PE	Plant	Both	TRADOC	Ft. Huachuca	NA	None
<i>Lindera melissifolia</i>	Pondberry	E	Plant	Contig.	NGB	Wappapello TS	None	None
<i>Lipochaeta lobata</i>	Nehe	E	Plant	Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>var. leptophylla</i>								
<i>Lipochaeta tenuifolia</i>	Nehe	E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
<i>Lipochaeta venosa</i>	No Common Name	E	Plant	Onsite	NGB	Keamuku LTA	None	None
<i>Onsite</i>								
<i>Lobelia gaudichaudii</i>	Haha Oha	PE	Plant	Both	USARPAC	Kawaiola TA	NA	In Preparation
<i>ssp. koolauensis</i>								
<i>Lobelia niihauensis</i>	Haha Oha	E	Plant	Contig.	USARPAC	Makua MR	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Lobelia oahuensis</i>	Haha Oha	E	Plant	Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Loxoides bailleui</i>	Palila	E	Bird	Both	USARPAC	Pohakuloa TA	Yes	In Preparation
<i>Loxops coccineus</i>	Hawai'i 'Akepa	E	Bird	Onsite	NGB	Keamuku LTA	None	None
<i>coccineus</i>				Contig.	USARPAC	Pohakuloa TA	None	Completed
				Onsite	NGB	Pu'u Pa LTA	None	None
<i>Lycaeides melissa</i>	Karner Blue Butterfly	E	Insect	Both	USARC	Ft. McCoy	None	In Preparation
<i>samuelis</i>				Contig.	NGB	State MR	None	None
<i>Lycopodium nutans</i>	Wawae`ole	E	Plant	Onsite	USARPAC	Kawaiola TA	None	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Lysimachia asperulaefolia</i>	Rough-leaved Loosestrife	E	Plant	Both	FORSCOM	Ft. Bragg	None	In Preparation
				Onsite	TRADOC	Ft. Jackson	None	In Preparation
				Onsite	NGB	Leesburg TS	None	In Preparation
				Both	MTMC	Sunny Point	None	In Preparation
<i>Macrhybopsis gelida</i>	Sturgeon Chub	C	Fish	Both	FORSCOM	Ft. Riley	NA	NA
				Contig.	NGB	Skelton TS	NA	NA
<i>Macrhybopsis meeki</i>	Sicklefin Chub	C	Fish	Contig.	NGB	Skelton TS	NA	NA
<i>Manduca blackburni</i>	Blackburn's Sphinx Moth	C	Insect	Onsite	NGB	Kanaio LTA	NA	NA
<i>Marshallia mohrii</i>	Mohr's Barbara Buttons	T	Plant	Onsite	TRADOC	Ft. McClellan	None	Completed
<i>Melicope lyngbyei</i>	Alani	E	Plant	Onsite	USARPAC	Kawaiola TA	None	In Preparation

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Monachus schauinslandi</i>	Hawaiian Monk Seal	E	Mammal	Both	USARPAC	Dillingham TA	None	In Preparation
<i>Mycteria americana</i>	Wood Stork	E	Bird	Both	NGB	Camp Blanding TS	None	Completed
				Both	TRADOC	Ft. Benning	None	In Preparation
				Onsite	TRADOC	Ft. Gordon	None	In Preparation
				Both	FORSCOM	Ft. Stewart & Hunter Army Airfield	None	In Preparation
				Contig.	MTMC	Sunny Point	None	None
<i>Myotis grisescens</i>	Gray Bat	E	Mammal	Both	NGB	Camp Crowder	None	In Preparation
				Contig.	FORSCOM	Ft. Campbell	None	None
				Onsite	TRADOC	Ft. Knox	None	In Preparation
				Both	TRADOC	Ft. McClellan	None	Completed
				Contig.	TRADOC	Ft. Rucker	None	None
				Contig.	AMC	Indiana AAP	None	None
				Both	AMC	Redstone Arsenal	None	None
				Contig.	NGB	Skelton TS	None	None
				Contig.	NGB	Truman TS	None	None
				Contig.	NGB	Tullahoma TS	None	None
				Both	NGB	Western Kentucky TS	None	None
<i>Myotis sodalis</i>	Indiana Bat	E	Mammal	Contig.	FORSCOM	Ft. Campbell	None	None
				Both	TRADOC	Ft. Knox	None	In Preparation
				Contig.	AMC	Indiana AAP	None	None
				Onsite	AMC	Jefferson Proving Ground	None	None
				Contig.	NGB	Macon TS	None	None
				Both	AMC	Picatinny Arsenal	None	In Preparation
						Tacom-ARDEC		
				Contig.	AMC	Ravenna AAP	None	None
				Contig.	AMC	Savanna Army Depot	None	None
<i>Myrsine judii</i>	Kolea	PE	Plant	Both	USARPAC	Kawaiola TA	NA	In Preparation
<i>Neonympha mitchellii francisci</i>	Saint Francis' Satyr Butterfly	E	Insect	Onsite	FORSCOM	Ft. Bragg	None	In Preparation
<i>Neraudia angulata</i> var. <i>Ma'aloa angulata</i>		E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
				Onsite	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Neraudia angulata</i> var. <i>Ma'aloa dentata</i>		E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
				Onsite	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Neraudia ovata</i>	Ma'aloa	PE	Plant	Onsite	USARPAC	Pohakuloa TA	NA	In Preparation
<i>Nerodia erythrogaster neglecta</i>	Northern Copperbelly Water Snake	PT	Reptile	Contig.	FORSCOM	Ft. Campbell	NA	None
<i>Nesochen sandvicensis</i>	Hawaiian Goose	E	Bird	Onsite	NGB	Keamuku LTA	None	None
				Both	NGB	Kekaha LTA	None	None
				Both	USARPAC	Pohakuloa TA	None	In Preparation
<i>Nicrophorus americanus</i>	American Burying Beetle	E	Insect	Contig.	NGB	Camp Crowder	None	None
				Both	NGB	Camp Gruber	None	Completed
				Both	TRADOC	Ft. Chaffee	None	In Preparation
				Both	AMC	McAlester AAP	None	In Preparation
<i>Nothocestrum breviflorum</i>	Aiea	E	Plant	Onsite	NGB	Keamuku LTA	None	None
				Onsite	NGB	Pu'u Pa LTA	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Nototrichium humile</i>	Kulu'i	E	Plant	Onsite	USARPAC	Dillingham TA	None	In Preparation
				Both	USARPAC	Makua MR	None	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Notropis topeka</i>	Topeka Shiner	C	Fish	Both	FORSCOM	Ft. Riley	NA	NA
				Contig.	NGB	Skelton TS	NA	NA
<i>Obovaria retusa</i>	Ring Pink	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
<i>Oncorhynchus clarki stomias</i>	Greenback Cutthroat Trout	T	Fish	Onsite	FORSCOM	Ft. Carson	NR	NR
				Onsite	USARPAC	Pu'u Pa LTA	None	None
<i>Oreomystis mana</i>	Hawaii Creeper	E	Bird	Onsite	NGB	Keamuku LTA	None	None
				Contig.	USARPAC	Pohakuloa TA	None	Completed
				Onsite	NGB	Kauai TA	None	None
<i>Ottoschulzia rhodoxylon</i>	Palo de Rosa	E	Plant	Onsite	FORSCOM	Ft. Buchanan	None	None
<i>Palaemonias alabamae</i>	Alabama Cave Shrimp	E	Crustacean	Both	AMC	Redstone Arsenal	None	In Preparation
				Both	USARPAC	Kawaiola TA	None	In Preparation
<i>Paroreomyza flammea</i>	Molokai Creeper	E	Bird	Both	USARPAC	Makua MR	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
				Both	USARPAC	Kahuku TA	None	In Preparation
<i>Phyllostegia hirsuta</i>	No Common Name	PE	Plant	Contig.	USARPAC	Kahuku TA	NA	In Preparation
				Onsite	USARPAC	Kawaiola TA	NA	In Preparation
				Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Phyllostegia mollis</i>	No Common Name	E	Plant	Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Phyllostegia parviflora var. parviflora</i>	No Common Name	E	Plant	Onsite	USARPAC	Kawaiola TA	None	In Preparation
				Onsite	USARPAC	Kawaiola TA	None	In Preparation
<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	Bird	Contig.	NGB	Camp Beauregard	None	Completed
				Onsite	NGB	Camp Blanding TS	None	Completed
				Contig.	NGB	Camp Shelby	None	In Preparation
				Onsite	TRADOC	Ft. Benning	None	In Preparation
				Both	FORSCOM	Ft. Bragg	None	In Preparation
				Onsite	TRADOC	Ft. Gordon	None	In Preparation
				Onsite	TRADOC	Ft. Jackson	None	In Preparation
				Contig.	TRADOC	Ft. McClellan	None	Completed
				Both	FORSCOM	Ft. Polk	None	In Preparation
				Onsite	FORSCOM	Ft. Stewart & Hunter	None	In Preparation
<i>Piperia yadonii</i>	Yadon's Piperia	PE	Plant	Onsite	NGB	Leesburg TS	None	In Preparation
				Both	MTMC	Sunny Point	None	In Preparation
				Both	TRADOC	Pom Annex	NA	Completed
				Both	TRADOC	Presidio of Monterey	NA	In Preparation
<i>Plantago princeps var. longibracteata</i>	Laukahia Kuahiwi	E	Plant	Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Makua MR	None	In Preparation
<i>Plantago princeps var. princeps</i>	Laukahia Kuahiwi	E	Plant	Both	USARPAC	Kawaiola TA	None	In Preparation
				Both	USARPAC	Makua MR	None	In Preparation
<i>Platanthera holochila</i>	No Common Name	PE	Plant	Contig.	USARPAC	Kawaiola TA	NA	In Preparation
<i>Plethobasus cooperianus</i>	Orange Footed Pearly Mussel	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
				Contig.	FORSCOM	Ft. Campbell	None	None
<i>Polygyriscus virginianus</i>	Virginia Fringed Mountain Snail	E	Snail	Both	AMC	Radford AAP	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Portulaca sclerocarpa</i>	Po'e	E	Plant	Onsite	NGB	Keamuku LTA	None	None
				Both	USARPAC	Pohakuloa TA	None	In Preparation
				Onsite	NGB	Pu'u Pa LTA	None	None
<i>Pritchardia kaalae</i>	Loulu	PE	Plant	Onsite	USARPAC	Makua MR	NA	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Psittirostra psittacea</i>	O'u	E	Bird	Contig.	USARPAC	Pohakuloa TA	None	Completed
<i>Pteris lidgatei</i>	No Common Name	E	Plant	Onsite	USARPAC	Kawaioloa TA	None	In Preparation
				Onsite	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Pterodroma phaeopygia</i>	Hawaiian Dark-rumped Petrel	E	Bird	Onsite	NGB	Kanaio LTA	None	None
				Contig.	USARPAC	Pohakuloa TA	None	In Preparation
<i>Ptilimnium nodosum</i>	Harperella	E	Plant	Both	NGB	Lil Aaron Straus Wilderness Area	None	In Preparation
<i>Puffinus auricularis newelli</i>	Newell's Townsend's Shearwater	T	Bird	Both	NGB	Aahoaka & Wailua River LTA	None	None
<i>Pyrgulopsis thompsoni</i>	Huachuca Springsnail	C	Snail	Both	TRADOC	Ft. Huachuca	NA	NA
<i>Quadrula fragosa</i>	Winged Mapleleaf Mussel	E	Clam	Contig.	FORSCOM	Ft. Campbell	None	None
<i>Rana aurora draytoni</i>	California Red-legged Frog	PE	Amphibian	Both	NGB	Camp San Luis Obispo	NA	In Preparation
				Contig.	USARC	Ft. Hunter Liggett	NA	None
				Both	USARC	Parks RFT.A	NA	None
				Contig.	TRADOC	Pom Annex	NA	Completed
<i>Rana pretiosa</i>	Spotted Frog	C	Amphibian	Contig.	AMC	Dugway Proving Ground	NA	NA
				Contig.	FORSCOM	Ft. Lewis	NA	NA
<i>Rana subaquavocalis</i>	Ramsey Canyon Leopard Frog	C	Amphibian	Both	TRADOC	Ft. Huachuca	NA	NA
<i>Rhododendron chapmanii</i>	Chapman's Rhododendron	E	Plant	Onsite	NGB	Camp Blanding TS	None	Completed
<i>Rhus michauxii</i>	Michaux's Sumac	E	Plant	Both	FORSCOM	Ft. Bragg	None	In Preparation
				Onsite	USARC	Ft. Pickett	None	None
<i>Rollandia crispa</i>	Haha Oha	E	Plant	Both	USARPAC	Kawaioloa TA	None	In Preparation
<i>Rumex orthoneurus</i>	Blumer's Dock	C	Plant	Both	TRADOC	Ft. Huachuca	NA	NA
<i>Salvelinus confluentus</i>	Bull Trout	C	Fish	Contig.	FORSCOM	Ft. Lewis	NA	NA
<i>Sanicula mariversa</i>	No Common Name	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
				Both	USARPAC	Kawaioloa TA	NA	In Preparation
<i>Sanicula purpurea</i>	No Common Name	PE	Plant	Both	USARPAC	Schofield Barracks MR	NA	In Preparation
				Both	USARPAC	Kawaioloa TA	NA	In Preparation
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	E	Fish	Contig.	NGB	Skelton TS	None	In Preparation
<i>Schiedea hookeri</i>	No Common Name	PE	Plant	Both	USARPAC	Makua MR	NA	In Preparation
				Both	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Schiedea kealiae</i>	Ma`oli`oli	PE	Plant	Onsite	USARPAC	Dillingham TA	NA	In Preparation
<i>Schiedea nuttallii</i>	No Common Name	PE	Plant	Onsite	USARPAC	Makua MR	NA	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	NA	In Preparation
<i>Schwalbea americana</i>	American Chaffseed	E	Plant	Both	FORSCOM	Ft. Bragg	None	In Preparation
<i>Scutellaria montana</i>	Large-flowered Skullcap	E	Plant	Onsite	AMC	Volunteer AAP	None	Completed

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Sesbania tomentosa</i>	Ohai	E	Plant	Onsite	NGB	Kanaio LTA	None	None
<i>Silene hawaiiensis</i>	Hawaiian Catchfly	T	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
<i>Silene lanceolata</i>	Lanceleaf Catchfly	E	Plant	Onsite	USARPAC	Makua MR	None	In Preparation
<i>Solanum incompletum</i>	Spiny Popolo	E	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
<i>Solanum sandwicense</i>	Popolo `Aiaakeakua	E	Plant	Contig.	USARPAC	Kahuku TA	None	In Preparation
<i>Solidago houghtonii</i>	Houghton's Goldenrod	T	Plant	Both	NGB	Camp Grayling	None	In Preparation
<i>Spermolepis hawaiiensis</i>	Hawaiian Parsley	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
<i>Speyeria zerene hippolyta</i>	Oregon Silverspot Butterfly	T	Insect	Onsite	NGB	Camp Rilea	Yes	In Preparation
<i>Spiranthes diluvialis</i>	Ute Ladies'-tresses	T	Plant	Contig.	AMC	Dugway Proving	None	None
				Onsite	FORSCOM	Ground	NR	NR
						Ft. Carson		
<i>Stenogyne angustifolia</i>	No Common Name	E	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
				Onsite	NGB	Pu'u Pa LTA	None	None
<i>Stenogyne kanehoana</i>	No Common Name	E	Plant	Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Sterna antillarum</i>	Least Tern	E	Bird	Both	FORSCOM	Ft. Riley	None	In Preparation
				Both	NGB	Skelton TS	None	In Preparation
<i>Sterna dougallii</i>	Roseate Tern <i>dougallii</i>	E	Bird	Contig.	MTMC	Sunny Point	None	None
<i>Strix occidentalis</i>	Northern Spotted Owl	T	Bird	H	FORSCOM	Ft. Lewis	Yes	Completed
<i>Strix occidentalis</i>	Mexican Spotted Owl	T	Bird	Both	NGB	Camp Navajo MR	Yes	In Preparation
<i>lucida</i>				Both	TRADOC	Ft. Bliss	None	In Preparation
				Both	FORSCOM	Ft. Carson	NR	NR
				Both	TRADOC	Ft. Huachuca	Yes	None
				Contig.	AMC	White Sands Missile	None	None
						Rng.		
<i>Tetramolopium arenarium</i>	Mauna Kea Pamakani	E	Plant	Onsite	USARPAC	Pohakuloa TA	None	In Preparation
<i>Tetramolopium arenarium</i>	No Common Name	E	Plant	Onsite	NGB	Keamuku LTA	None	None
<i>Tetramolopium filiforme</i> var. <i>polyphyllum</i>	No Common Name	E	Plant	Both	USARPAC	Makua MR	None	In Preparation
<i>Tetramolopium lepidotum</i> ssp. <i>lepidotum</i>	No Common Name	E	Plant	Contig.	USARPAC	Makua MR	None	In Preparation
				Contig.	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Tetraplasandra gymnocarpa</i>	`Ohe`ohe	E	Plant	Both	USARPAC	Kahuku TA	None	In Preparation
				Both	USARPAC	Kawaiiloa TA	None	In Preparation
				Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Thalictrum cooleyae</i>	Cooley's Meadow Rue	E	Plant	Contig.	MTMC	Sunny Point	None	None
<i>Trichechus manatus</i>	West Indian Manatee	E	Mammal	Contig.	MTMC	Sunny Point	None	None

Scientific Name	Common Name	Fed Stat	Cat	Occur	MACOM	Installation	Crit	ESMP
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	E	Plant	Both	AMC	Bluegrass Army Depot	None	None
<i>Trillium reliquum</i>	Relict Trillium	E	Plant	Onsite	TRADOC	Ft. Benning	None	In Preparation
<i>Ulera kaalae</i>	Opuhe	E	Plant	Both	USARPAC	Schofield Barracks MR	None	In Preparation
<i>Ursus americanus</i>	Florida Black Bear	C	Mammal	Both	NGB	Camp Blanding TS	NA	NA
<i>Vigna o-wahuensis</i>	No Common Name	E	Plant	Onsite	NGB	Keamuku LTA	None	None
<i>Viola chamissoniana</i> ssp.	Pamakani	E	Plant	Onsite Both	USARPAC USARPAC	Makua MR Schofield Barracks MR	None None	In Preparation In Preparation
<i>Viola oahuensis</i>	No Common Name	PE	Plant	Both Both	USARPAC USARPAC	Kawaiola TA Schofield Barracks MR	NA NA	In Preparation In Preparation
<i>Vireo atricapillus</i>	Black-capped Vireo	E	Bird	Both Both Both Both	NGB FORSCOM MEDCOM TRADOC	Camp Barkeley Ft. Hood Ft. Sam Houston Ft. Sill	None None None None	Completed In Preparation In Preparation In Preparation
<i>Vireo bellii pusillus</i>	Least Bell's Vireo	E	Bird	Onsite Both	NGB USARC	Camp San Luis Obispo Ft. Hunter Liggett	None None	In Preparation None
<i>Vulpes macrotis</i> <i>mutica</i>	San Joaquin Kit Fox	E	Mammal	Both Both Contig.	NGB USARC USARC	Camp Roberts Ft. Hunter Liggett Parks RFT.A	None None None	None In Preparation None
<i>Vulpes velox</i>	Swift Fox	C	Mammal	Both	FORSCOM	Pinon Canyon MS	NA	NA
<i>Xyris tennesseensis</i>	Tennessee Yellow-eyed Grass	E	Plant	Both Both	AMC TRADOC	Anniston Army Depot Ft. McClellan	None None	Completed Completed
<i>Zanthoxylum hawaiiense</i>	A'e	E	Plant	Onsite Both	NGB USARPAC	Keamuku LTA Pohakuloa TA	None None	None In Preparation

USACERL DISTRIBUTION

Chief of Engineers ATTN: CEHEC-IM-LH (2) ATTN: CEHEC-IM-LP (2) ATTN: CECC-R ATTN: CERD-L ATTN: CERD-M	Asst Sec of the Army, (Installations, Logistics, and Environment)
Defense Tech Info Center 22304 ATTN: DTIC-O (2)	Military Dist of Washington ATTN: ANEN-ES (2)
HQDA, ATTN: DAJA-EL	US Fish & Wildlife Service ATTN: ARLSQ 452
HQ TRADOC ATTN: ATBO-FN ATTN: ATBO-SE	HQ AF Center for Env Excellence ATTN: AFCEE/ECR
US AEC ATTN: SFIM-AEC-ECN (200) ATTN: SFIM-AEC-ECM (2) ATTN: SFIM-AEC-EC	HQ DA ATTN: DAMO-TRO ATTN: DAMO-TRS
HQ FORSCOM ATTN: AFPI-ENE ATTN: AFOP-TE	Mil Traffic Management Command ATTN: MTPAL-FE
ODUSD (ES) C	USARCOM ATTN: AFRC-ENP-NC ATTN: AFRC-ENS-E
AMC ATTN: AMXEN-M ATTN: AMXEN-U	US Army Engineering & Spt Ctr ATTN: CEHND-ED-S
US Military Academy ATTN: MAEN-ED	US Army Logistics Management ATTN: ATSZ-LSE
ATCS ATTN: ATIC-CTS	Commander, Fort McCoy ATTN: AFRC-FM
DA-Env Programs ATTN: NGB-ILE-EC ATTN: NGB-ARE-C	Defense Environmental Security Corp
US Army Medical Command ATTN: MCFA-E	HQDA ACSIM ATTN: DAIM-ED-R (5) ATTN: DAIM-ED
SERDP Program Office Arlington, VA	US Army Space & Strategic Cmd ATTN: CSSD-EN-V
HQ US Army Pacific ATTN: APEN-E	248 12/97